

LYCOMING COLLEGE

BULLETIN

Williamsport, Pennsylvania

CATALOGUE ISSUE 1957-1958







*Lycoming is a Christian coeducational
liberal arts and sciences college.*

*It is open to students of all
backgrounds and opinions.*

*It explores all available avenues to truth
and stands firm in the liberal arts tradition
of training the whole person.*

LYCOMING COLLEGE BULLETIN

Williamsport, Pennsylvania

Approved to Grant Baccalaureate Degrees
by the Pennsylvania State Department of Education

Accredited by
The Middle States Association of Colleges and Secondary
Schools
The University Senate of the Methodist Church

Member of
Pennsylvania Association of Colleges and Universities
National Association of Schools and Colleges
of the Methodist Church
Association of American Colleges
The National Commission on Accrediting

REGISTER FOR 1956-57

CATALOGUE ISSUE 1957-1958



LYCOMING COLLEGE BULLETIN
*Entered at the Post Office at Williamsport, Pa.,
As second class matter under the Act of Congress, August 24, 1912.
Issued four times a year,
January, April, September, and December
VOL. 1 JANUARY, 1957 No. 3
Catalogue Issue*

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Academic Calendar

SECOND SEMESTER

1956-1957

January 28, *Monday* and 29, *Tuesday*. Registration

January 30, *Wednesday*, 8:15 a. m. Classes Begin

March 26, *Tuesday*, 5:00 p. m. Mid-Semester

April 16, *Tuesday*, 5:00 p. m. Easter Recess Begins

April 23, *Tuesday*, 8:15 a. m. Classes resume

May 31, *Friday*, 5:00. Second Semester Ends

June 2, *Sunday*. Commencement

1957 SUMMER SESSIONS

FIRST SESSION

June 10, *Monday*, 8:30 a. m. Registration and Class Organization

July 4, *Thursday*. July 4th Recess

July 5, *Friday*, 8:00 a. m. Classes Resume

July 6, *Saturday*. Classes Meet

July 19, *Friday*, 12:25 p. m. First Session Ends

SECOND SESSION

July 22, *Monday*, 8:30 a. m. Registration and Class Organization

August 30, *Friday*, 12:25. Second Semester Ends

FIRST SEMESTER


1957-1958

- September 11, *Wednesday*. Freshman Orientation Begins
September 12, *Thursday*. Registration of Freshman and Other New Students
September 13, 14, *Friday*, 9:00 a. m. until Saturday Noon.
Registration of Upper Classmen
September 15, *Sunday*. Matriculation Services
September 16, *Monday*, 8:15 a. m. Classes Begin
November 11, *Monday*, 5:00 p. m. Mid-Semester
November 27, *Wednesday*, 12:00 Noon. Thanksgiving Recess Begins
December 2, *Monday*, 8:15 a. m. Thanksgiving Recess Ends
December 13, *Friday*, 5 p. m. Christmas Recess Begins
January 6, *Monday*, 8:15 a. m. Classes Resume
January 31, *Friday*, 5 p. m. First Semester Ends

SECOND SEMESTER

1957-1958

- February 3, 4, *Monday* and *Tuesday*. Registration
February 5, *Wednesday*, 8:15 a. m. Classes Begin
April 1, *Tuesday*, 5:00 p. m. Easter Recess Begins. Mid-Semester
April 8, *Tuesday*, 8:15 a. m. Classes Resume
June 6, *Friday*, 5:00 p. m. Second Semester Ends
June 8, *Sunday*. Commencement



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Personnel of the College

Board of Directors

OFFICERS

Hon. Robert F. Rich, *President*
 Mr. Arnold A. Phipps, *Vice-President*
 Mr. Paul G. Gilmore, *Secretary*
 Mr. Kenneth E. Himes (not a director), *Treasurer*

TERM EXPIRES 1957

Mr. Harold A. Brown	Williamsport
Mrs. Layton S. Lyon	Williamsport
Mr. John H. McCormick	Williamsport
The Rev. Elvin Clay Myers, D.D.	New Cumberland
Mr. Arnold A. Phipps	Williamsport
Hon. Robert F. Rich	Woolrich
Mr. George L. Stearns, II	Williamsport
Mr. Carl F. Stroehmann	Williamsport
Judge Charles Scott Williams	Williamsport
Mr. W. Russell Zacharias	Allentown

TERM EXPIRES 1958

Mr. Charles V. Adams	Montoursville
The Rev. W. W. Banks	Clearfield
Bishop Fred P. Corson, D.D., LL.D.	Philadelphia
Mr. Frank Dunham	Wellsboro
Dr. Ralph C. Geigle	Reading
Mr. Paul G. Gilmore	Williamsport
Mr. Ralph E. Kelchner	Jersey Shore
The Rev. A. Lawrence Miller, Ph.D.	Williamsport
The Rev. W. E. Watkins, D.D.	Williamsport
The Rev. L. Elbert Wilson	Dominican Republic

TERM EXPIRES 1959

Mr. Jesse S. Bell	Williamsport
Mr. Ernest M. Case	Williamsport
The Rev. F. LaMont Henninger, Th.D.	Harrisburg
Judge Don M. Larrabee, LL.D.	Williamsport
Bishop G. Bromley Oxnam, D.D., LL.D.	Washington, D. C.
Mrs. H. Marshall Stecker	Mt. Carmel
Mr. George W. Sykes	Cranberry Lake, N. Y.
Mr. Richard Todhunter	Barnesboro
The Rev. W. Galloway Tyson, D.D.	West Chester
The Rev. Lester A. Welliver, D.D.	Williamsport

Committees of the Board of Directors

The President of the Board of Directors and the President of the College are ex-officio members of all standing committees.

EXECUTIVE COMMITTEE

Mr. Harold A. Brown
Mr. Frank Dunham
Mr. Paul G. Gilmore
Judge Don M. Larrabee, LL.D.
Mr. Arnold A. Phipps
Mr. George L. Stearns, II
Mr. Carl F. Stroehmann
The Rev. W. Edward Watkins, D.D.
Judge Charles S. Williams

FINANCE COMMITTEE

Mr. Charles V. Adams
Mr. Harold A. Brown
Mr. Ernest M. Case
Mr. Kenneth E. Himes, Ex-Officio
Mr. Arnold A. Phipps
Mr. Carl F. Stroehmann
Mr. Russell Zacharias

AUDITING COMMITTEE

Mr. Ralph E. Kelchner
Mr. George W. Sykes
The Rev. W. Edward Watkins, D.D.

ATHLETIC COMMITTEE

Mr. Charles V. Adams
The Rev. W. W. Banks
Dr. Ralph C. Geigle
Judge Don M. Larrabee, LL.D.

GROUNDS AND BUILDING COMMITTEE

Mr. Jesse S. Bell
Mr. Frank Dunham
Mr. Kenneth E. Himes, Ex-Officio
Judge Don M. Larrabee, LL.D.
Mr. Arnold A. Phipps
Mr. George L. Stearns, II
Judge Charles S. Williams

DEVELOPMENT COMMITTEE

Mr. Ernest M. Case
Mr. Paul G. Gilmore
The Rev. F. LaMont Henninger, Th.D.
Mrs. Layton S. Lyon
The Rev. Elvin Clay Myers, D.D.
Mrs. H. Marshall Stecker
Mr. Richard Todhunter
The Rev. W. Galloway Tyson, D.D.
Judge Charles S. Williams
Mr. W. Russell Zacharias

HONORARY DEGREES COMMITTEE

The Rev. A. Lawrence Miller, Ph.D.
Mr. Arnold A. Phipps
The Rev. W. W. Watkins, D.D.
The Rev. Lester A. Welliver, D.D.

Faculty

Administrative Staff

D. FREDERICK WERTZ *President*
A.B., LL.D., Dickinson College; A.M., S.T.B., Boston University.

TAYLOR E. MILLER *Academic Dean*
A.B., Syracuse University; A.M., S.T.B., Boston University.

G. HEIL GRAMLEY *Dean of Men and Registrar*
B.S., Albright College; M.A., Bucknell University.

HELEN M. FELIX *Dean of Women*
B.S., East Stroudsburg State Teachers College.

KENNETH E. HIMES *Treasurer and Business Manager*
B.S., Drexel Institute of Technology; G.S.B., Rutgers University.

RICHARD A. LANK *Assistant to the President and Director of Development*
A.B., Bucknell University.

OLIVER E. HARRIS *Director of Admissions*
A.B., M.S., The Pennsylvania State University.

HARRY J. CANON *Director of Guidance*
A.B., Lycoming College; M.S., The Pennsylvania State University.

M. RUTH GRIERSON *Librarian*
A.B., Alma College; A.B.L.S., University of Michigan; M.S., Columbia University.

ROBERT F. SMITH *Director of Teacher Education, Summer School, and of Athletics*
B.S., Lock Haven State Teachers College; M.Ed., D.Ed., The Pennsylvania State University.

DONALD H. TREESE *Director of Religious Activities*
A.B., Juniata College; B.D., University of Chicago.

DAVID G. BUSEY *Director of Physical Education*
B.S. in Phys. Ed., M.S. in Ed., University of Illinois.

JOHN P. GRAHAM *Director of Extension Work*
Ph.B., Dickinson College; M.Ed., The Pennsylvania State University.

DONALD G. REMLEY *Director of Placement*
A.B., Dickinson College; M.A., Columbia University.

NAOMI L. WOOLEVER *Director of Publicity*
B.S., The Pennsylvania State University.

Emeriti

WILLIAM S. HOFFMAN *Academic Dean Emeritus*
B.S., M.S., The Pennsylvania State University.

JAMES W. STERLING *Associate Professor of English Emeritus*
A.B., A.M., Syracuse University; Litt.D., Lycoming College.

Professors

ARNOLD J. CURRIER (1955) *Professor of Chemistry*
A.B., Colgate University; M.S., The Pennsylvania State University;
Ph.D., Cornell University.

LORING B. PRIEST (1949), Divisional Director, Social Sciences
Professor of History
Litt.B., Rutgers University; M.A., Ph.D., Harvard University.

ERIC V. SANDIN (1946), Divisional Director, Humanities
Professor of English
B.S., Wesleyan University; M.A., Columbia University; Ph.D., University of Illinois.

GEORGE S. SHORTESS (1948), Divisional Director, Natural Sciences
Professor of Biology
A.B., Johns Hopkins University; M.A., Columbia University; Ph.D., Johns Hopkins University.

J. MILTON SKEATH (1921) *Professor of Psychology*
A.B., Dickinson College; M.A., University of Pennsylvania; Ph.D., The Pennsylvania State University.

Associate Professors

JOSEPH D. BABCOCK (1931) *Associate Professor of Physics*
A.B., Dickinson College; M.A., Bucknell University.

MABEL K. BAUER (1942) *Associate Professor of Chemistry*
B.S., Cornell University; M.S., University of Pennsylvania.

- ROBERT H. EWING (1947) *Associate Professor of History*
A.B., College of Wooster; M.A., University of Michigan.
- PHIL G. GILLETTE (1929) *Associate Professor of German and Spanish*
A.B., Ohio University; M.A., Columbia University.
- JOHN P. GRAHAM (1939) *Associate Professor of English*
Ph.B., Dickinson College; M.Ed., The Pennsylvania State University.
- GEORGE W. HOWE (1949) *Associate Professor of Biology*
A.B., M.S., Syracuse University; Ph.D., Cornell University.
- WALTER G. McIVER (1946) *Associate Professor of Voice*
Mus.B., Westminster Choir College; A.B., Bucknell University.
- ROBERT F. SMITH (1946) *Associate Professor of Education*
B.S., Lock Haven State Teachers College; M.Ed., D.Ed., The Pennsylvania State University.
- ARMAND J. L. VANBAELEN (1947) *Associate Professor of Mathematics*
College Communal, Tirlemont, Belgium; B.S., Agric College, Gembloux, Belgium; M.S., Rutgers, University.
- HELEN BREESE WEIDMAN (1944) *Associate Professor of Political Science*
A.B., M.A., Bucknell University; Ph.D., Syracuse University.

Assistant Professors

- THOMAS G. BARNES (1956) *Assistant Professor of History*
A.B., Harvard University; D.Phil., Oxford University.
- WILLIAM L. BRICKER (1955) *Assistant Professor of Banking and Finance*
A.B., M.A., University of Washington.
- DAVID G. BUSEY (1954) *Assistant Professor of Physical Education and Head Football Coach*
B.S. in Phys. Ed., M.S. in Ed., University of Illinois.
- JOHN W. CHANDLER (1952) *Assistant Professor of Art*
A.B., St. Anselm's College; M.Ed., Boston University.

ROGER EARLE COGSWELL (1946) *Assistant Professor of French*
A.B., Sorbonne University, Paris, France; M.A., The Pennsylvania
State University.

W. ARTHUR FAUS (1951) *Assistant Professor of Philosophy*
A.B., Dickinson College; S.T.B., Ph.D., Boston University.

RUSSELL GRAVES (1953) *Assistant Professor of Speech*
B.F.A., M.F.A., Carnegie Institute of Technology; Ph.D., Florida State
University.

M. RUTH GRIERSON (1955) *Librarian With Rank of Assistant Professor*
A.B., Alma College; A.B.L.S., University of Michigan; M.S., Columbia
University.

JOHN G. HOLLENBACK (1952) *Acting Divisional Director, Business Administration*
Assistant Professor of Business Administration
B.S., M.B.A., University of Pennsylvania.

FRANK B. JACKSON (1955) *Assistant Professor of History*
B.S., Wittenberg College; M.A., University of Cincinnati; Ph.D., Ohio
State University.

LOIS KELLER HINKEL (1955) *Assistant Professor of Education*
B.S., Lock Haven State Teachers College; M.S., The Pennsylvania
State University.

FRANCES E. KNIGHTS (1947) *Assistant Professor of Mathematics*
A.B., M.A., Bucknell University. (Sabbatical Leave 1956-57)

DONALD T. KYTE (1956) *Assistant Professor of Economics*
A.B., Wesleyan University; A.M., Boston University.

GEORGE LAWTHOR (1955) *Assistant Professor of Physical Education and Head Basketball Coach*
B.S., M.S., The Pennsylvania State University.

ROBERT W. RABOLD (1955) *Assistant Professor of Economics*
B.A., The Pennsylvania State University; M.A., Ph.D., University of
Pittsburgh.

HOWARD L. RAMSEY (1955) *Assistant Professor of Religion*
A.B., B.D., Southern Methodist University.

- DONALD GEORGE REMLEY (1946) *Assistant Professor of Mathematics, Physics*
A.B., Dickinson College; M.A., Columbia University.
- MARY LANDON RUSSELL (1936), *Assistant Professor of Organ, Piano*
Mus.B., Susquehanna University Conservatory of Music.
- JAMES W. SHEAFFER (1949) *Assistant Professor of Music*
B.S., Indiana State Teachers College; M.S., University of Pennsylvania.
- OTTO L. SONDER, JR. (1956) *Assistant Professor of Sociology*
A.B., American University; A.M., Bucknell University.
- DONALD H. TREESE (1956) *Assistant Professor of Religion*
A.B., Juniata College; B.D., University of Chicago.
- CHAI H. YOON (1956) *Assistant Professor of Biology*
A.B., Doshisha University; A.B., Alma College; Ph.D., Ohio State University.

Instructors

- LULU BRUNSTETTER (1925) *Assistant Librarian With Rank of Instructor*
Bloomsburg State Normal.
- HARRY J. CANON *Director of Guidance With Rank of Instructor*
A.B., Lycoming College; M.S., The Pennsylvania State University.
- M. LOUISE CLARK (1956) *Reference Librarian With Rank of Instructor*
B.S. in Ed., Lock Haven State Teachers College; B.S. in L.S., Drexel Institute of Technology.
- JEANNETTE A. CONFER (1954) *Instructor in English*
A.B., Lycoming College.
- THEODORE K. FRUTIGER (1956) *Instructor in Mathematics*
A.B., Bucknell University.
- DELBERT R. GARDNER (1955) *Instructor in English*
A.B., M.A., Syracuse University.
- G. VIRGINIA HERLT (1953) *Cataloging Librarian With Rank of Instructor*
A.B., Lycoming College; M.S. in L.S., Drexel Institute of Technology.

- ELIZABETH H. KING (1956) *Instructor in Secretarial Science*
B.S. in Bus. Ad., Geneva College
- JANE K. LANDON (1956) *Instructor in Piano*
A.B., Lycoming College
- WILLIAM L. MAXSON (1956) *Instructor in Music*
B.M., Indiana University.
- JOSEPH R. PECK, II (1956) *Instructor in English*
A.B., University of Pennsylvania; A.M., University of Florida.
- LOGAN A. RICHMOND (1954), *Instructor in Business Administration*
B.S., Lycoming College.
- C. RUTH SCHENLEY (1954) *Instructor in Secretarial Science*
A.B. in Education, The Pennsylvania State University; M.A., Bucknell University.
- VIRGINIA J. SMITH (1954) *Instructor in Psychology*
A.B., M.A., Bucknell University.
- SALLY F. VARGO (1953) *Instructor in Physical Education*
B.S., The Pennsylvania State University.

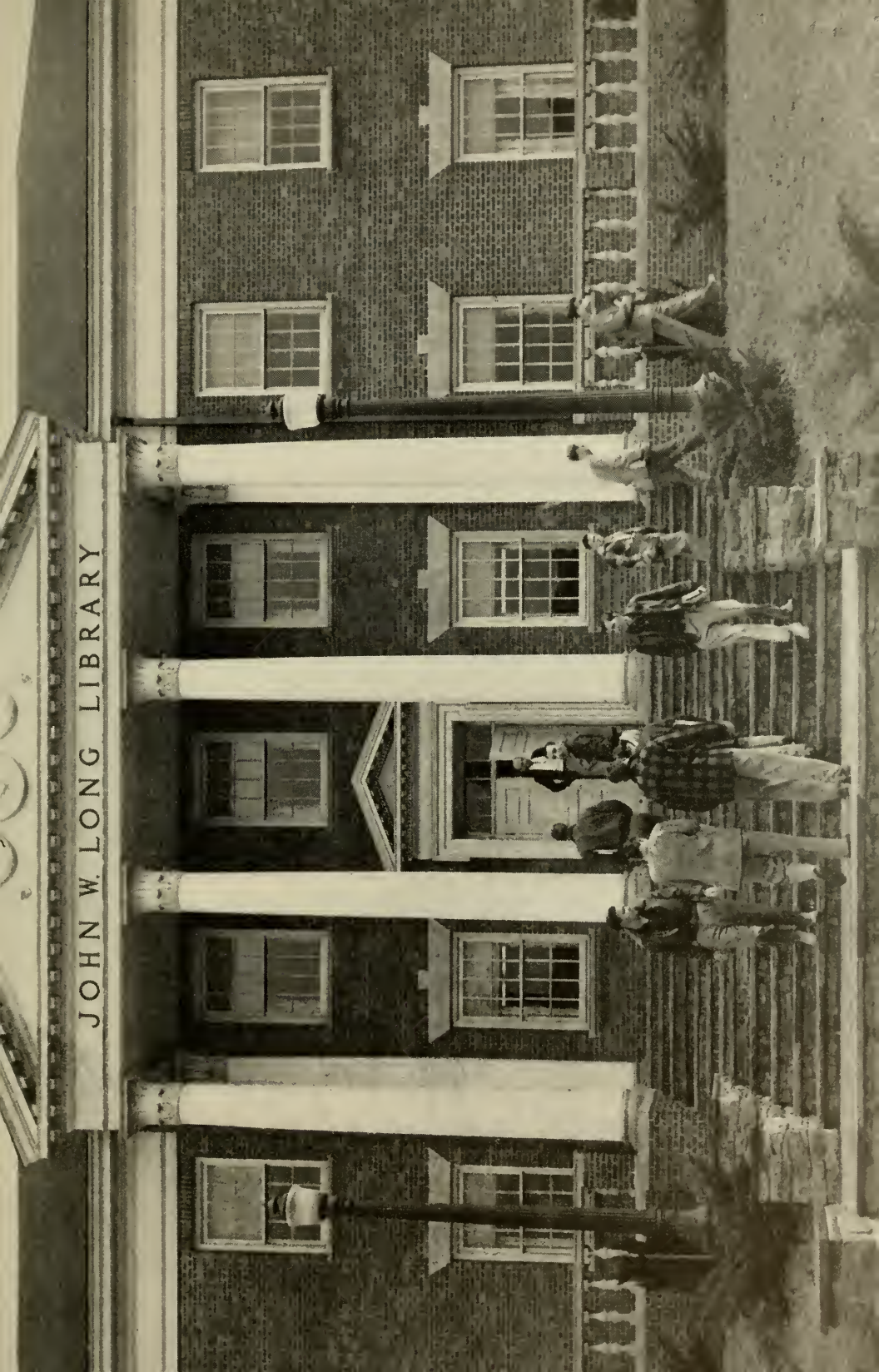
Lecturers

- CARL S. BAUER (1946) *Lecturer in Engineering Drawing*
B.S., M.Ed., The Pennsylvania State University.
- DON L. LARRABEE (1945), Attorney at Law
Lecturer in Business Law
A.B., Allegheny College; Wharton Graduate School of the University of Pennsylvania and Law School of the University of Pennsylvania.
- LEO G. PHILLIPS (1953) *Lecturer in Accounting*
B.B.A., City College of New York; C.P.A., Pennsylvania

Part Time Instructors

- RUTH J. BURKET *Medical Shorthand*
R.N., Wamot Hospital School of Nursing
- CLARENCE GREEN *Assistant Football Coach*
B.S., in Phys. Ed., Lock Haven State Teachers College; M.S. in Ed., Bucknell University.

JOHN W. LONG LIBRARY





RAYMOND JAMISON	<i>Physics</i>
B.S., Ursinus College; M.A., Bucknell University.	
ROLLIE MYERS	<i>Assistant Football Coach</i>
B.S. in Phys. Ed., Lock Haven State Teachers College.	
VIRGINIA E. NEWTON	<i>Secretarial Science</i>
R.N., Binghamton City Hospital.	
BUDD F. WHITEHILL	<i>Wrestling Coach</i>
B.S., Lock Haven State Teachers College	

Administrative Assistants

BESSIE L. WHITE	<i>Recorder</i>
CLARA E. FRITSCHÉ	<i>Accountant</i>
IVA BEEMER	<i>Assistant to the Dean of Women</i>
FANNY G. McCLOSKEY	<i>House Director, Rich Hall Annex</i>
DOROTHY J. STREETER	<i>Bookstore Manager</i>
NELLIE F. GORGAS	<i>Secretary to the President</i>
B.S., Lycoming College.	
BARBARA L. CROWDING	<i>Secretary to the Academic Dean</i>
MARTHA E. GRAMLEY	<i>Secretary to the Registrar</i>
CLARA N. BOHRMAN	<i>Secretary to the Director of Admissions</i>
EMILY C. BICHLE	<i>Secretary to the Business Manager</i>
ELEANOR MILES	<i>Secretary to the Assistant to the President</i>
EVELYN M. BAUSINGER	<i>Secretary to the Librarian</i>
NANCY LEONARD	<i>Secretary in Department Offices</i>
FREDERICK C. LECHNER, M.D.	<i>College Physician</i>
RUTH J. BURKET, R.N.	<i>College Nurse</i>
ALMA L. KHAN	<i>Assistant Nurse</i>
Graduate—Government Hospital, British Guiana, S. A.	
GAIL CRIST	<i>Assistant in Treasurer's Office</i>
FRANCES P. CROSSLEY	<i>Assistant in the Alumni Office</i>

Campus Life

History

Lycoming is an Indian name closely associated with the north Central area of Pennsylvania from early colonial days. The name is representative since the College has been involved in the gradual development of this area from its founding in 1812. It began as an Academy with the power to grant degrees. Because of the needs of that day, however, the school at first concerned itself primarily with the early stages of the educational experience.

As the passing of time brought increasing complexity to the pattern of American life, the program was changed to the preparatory, then to the junior college and finally to the liberal arts college level. Under the guidance of The Methodist Church, the College has steadily held strongly to the high ideals and standards of the Methodist tradition in higher education. Through the Middle States Association of Colleges and Secondary Schools, Lycoming enjoys the highest accreditation available to a liberal arts college. It cooperates freely in the Association of American Colleges.

Tradition

Lycoming's physical location has played a necessary part in determining the character of its tradition. Like other old eastern colleges, it is located near the center of a city. Williamsport, on the west branch of the Susquehanna River, has grown around and beyond the College campus as it has developed into a major community. Rail, air and bus lines link it with the metropolitan centers of the East. A radius of 200 miles includes Washington, Philadelphia, New York, Albany, Syracuse, Buffalo and Pittsburgh.

In spite of this expansion by the city, the college has maintained its life as an academic community with a closely knit arrangement of buildings on fifteen acres of land. Though set apart for the purpose of study, the College is awake to the demands of modern life and seeks to serve them with a challenging program for leadership.

Co-educational experience in a well rounded academic, religious and cultural program is designed to train the student for life in modern society not only through the development of specialized talents but also through the cultivation of the whole personality.

In a small liberal arts college there is a close community of interest—both academic and social. The extreme individualist finds that he must consider the rights of others. The quiet person learns to take his part in the life of the college community.

Every student can share in the exhilaration of varsity sports, for, whether player or spectator, he feels close to this expression of school spirit. He also participates in a competitive intramural program.

The chapel provides a focus for the student's life. It is here that he goes for worship, assemblies, academic gatherings and student productions. Surrounding these experiences and constantly guiding him in them is the life of the classroom. Here he becomes familiar with the ideas of enduring significance that have come from the minds of the learned and wise men of all the ages. He learns the techniques of government which mankind has perfected and then seeks to practice them in student life. He delves into science. He develops the ability to read and converse in the languages of other lands. He discovers a new awareness of the fine arts. The open stacks of the library afford him the opportunity to search for the ideas that will meet the challenge offered in class.

In all of this he has personal guidance as he shares his faculty advisor with a few other students. When he leaves the college for the graduate schools of the great universities, the professional schools of medicine, law and theology or the modern disciplines of engineering, forestry, industry, government and management, he takes with him the sharp edged tools of intellect and the broad cultural background of the liberal arts tradition. *Human relations* has become for him no mere professional term but a vital experience.

Purpose

It is the aim of Lycoming College to provide to qualified students education of such a nature as to supply the background for a more intelligent understanding and appreciation of the economic, political, historical, social, scientific, esthetic, and religious aspects of life. In addition to broad general education, courses preparatory to specialization in law, medicine, the ministry, dentistry, engineering, and business, or courses preparatory to graduate work in some field of concentration are offered. Certificates are awarded to students completing two years of work in some special fields.

Extra-Curricular Activities

Freshman Program

The college recognizes the need for giving the freshmen assistance in making desirable adjustments to the college situation. A special program has been prepared for the orientation of freshmen.

All freshmen are required to come to the college several days in advance of the upper-classmen. During this time various tests are given which will aid the college staff in advising the student in his choice of courses. During this period problems of freshman adjustment are discussed, and directions for study, the use of the library, and other instructional aids are given. Provision is also made for recreation and introduction to a wholesome social life.

Religious Tradition

Lycoming College is a Methodist educational institution. However, it is non-sectarian. A check of the Board of Directors, the faculty, and the student body indicates membership in twenty different denominations including Protestant, Catholic, and Jewish. Traditionally, the college attempts to help students of all faiths find the place of religion in their lives. Students attend Sunday morning services at churches in the city. Each student is encouraged to be loyal to the church of his choice.

The college aims to stress the development and practice of a Christian philosophy of life. Through the generosity of the late Honorable M. B. Rich, for eighteen years President of the Board of Directors, a Department of Religion has been established at the College. Courses in Religion (optional with non-Protestants who may substitute a course in Philosophy) include a systematic study of the Bible. The Religious Life Council is the student organization responsible for coordinating the religious activities of the campus. The Director of Religious activities serves as adviser to this group. Under the direction of the Council, the Committee for the Religious Emphasis Week brings to the campus outstanding religious leaders. Many of the chapel and assembly programs are religious in nature. Speakers include prominent civic leaders, faculty members, and national figures.

The John Wesley Club is composed of students preparing for the ministry or other forms of religious work. Through regular

meetings and deputation teams, they gain valuable training and experience in religious work.

Cultural Influences

Lycoming aims to develop in its students an easy familiarity with the best social forms and customs. Young men and women meet in the dining hall, at receptions and other social functions. These contacts, together with talks by instructors, do much to develop poise and social ease.

The Artists and Lecturers Series provides additional opportunities to broaden one's cultural horizon. At these events, the student learns to appreciate the ballet, an artist in drama, voice, or instrument, a lecturer, fine choral singing or group instrumental music. This is an important part of a liberal arts education.

Student Government

The college seeks to develop in each student a sense of loyalty and responsibility to good citizenship. To this end there is established a Student Government representing the entire student body with the purpose of promoting the general welfare of the college and of promoting understanding between students and administration.

Certain phases of dormitory life are supervised and regulated by student dormitory governments. In this way students are provided the experience of sharing the responsibilities which are the outgrowth of living closely with each other. The Dean of Women and the Dean of Men exercise an over-all supervisory influence on dormitory life.

Campus Groups

There are various organizations on the campus which provide students with an interesting and wholesome social life. These are organized and conducted by the students in cooperation with the faculty. Some of these are as follows: The International Relations Club, which is the campus focus for discussion of world affairs; the Future Teachers of America which gives prospective teachers the opportunity to receive current information as well as insight into the problems of the education field; The Lycoming College Players, which affords opportunity for acting and directing plays as demonstration of the work in the dramatic courses of the curriculum; the Varsity Club, which is composed of lettermen, promotes college spirit

in sports; the Pre-Medical Society, which has discussions and hears lectures on various medical data; the Engineering Society for pre-engineering students; the Hiking Club for those interested in hiking; some religious groups, the Canterbury Club, the Catholic Club, the Lutheran Student Movement, the Student Christian Association, and the Methodist Student Movement.

The College Choir and College Band are open to all students desiring to join. These furnish the college with music for many entertainments, athletic events, and celebrations throughout the year.

College Publications

There are six college publications. *The Lycoming Courier* is the official student paper, devoted to local interests of the student body, reporting current campus events. *The Arrow*, the college year book, is published in May and presents a record of student life during the current academic year. The staffs of both publications are composed of students interested in gaining more knowledge and experience in journalism and business practices. *The Alumni Bulletin*, issued three times a year, keeps the alumni posted on current happenings at the college and on alumni activities. *The Guidepost*, published by the Student Government, is a student handbook of regulations and miscellaneous information which is distributed during the first week of school. *The Student Bulletin* is issued weekly and *The Faculty Bulletin* as needed by the Dean's office.

Fraternities

Five Greek letter groups on the campus provide a means of bringing to men students the advantages of national fraternal organization as well as group housing. They include the Psi Chapter of Kappa Delta Rho, Beta Lambda Chapter of Sigma Pi, Iota Beta Zeta Chapter of Lambda Chi Alpha, Epsilon Beta Chapter of Theta Chi, and the Nu Chapter of Alpha Gamma Upsilon.

The Inter-Fraternity Council coordinates the activities of the fraternities.

Honors

General Honors

Any student who has an academic standing for his entire college course of between 2.90 and 3.00 shall receive a degree *summa cum laude*.

Any student who has an academic standing for his entire college course of between 2.50 and 2.89 shall receive a degree *magna cum laude*.

Any student who has an academic standing for his entire college course of between 2.25 and 2.49 shall receive a degree *cum laude*.

Sachem Honor Society

Any graduating student who has attended Lycoming College for at least three years and has attained a point average of 2.50 or above, or any junior student who has attended Lycoming College for three years and has attained a point average of 2.70 or above is eligible for membership.

Alpha Psi Omega

This national honorary society is for dramatic students. Worthy students are elected to the fraternity as a reward for their efforts in participating in the plays staged by the Lycoming College Players.

Phi Alpha Theta

This national honorary society is for those students interested in History. To be eligible, students must have completed, with a grade average of at least 2.1, a minimum of 12 semester hours in history. For two-thirds of the remainder of the work there must be a grade average of at least 2.0. The local chapter is Zeta Zeta.

The Chieftain Award

This award is given to that senior in the opinion of the students and faculty who has contributed the most to Lycoming College through support of school activities; who has a pleasing personality and the ability to get along with his co-workers, both students and faculty; who has evidenced a good moral code; and who has a good scholastic standing.

Who's Who in American Colleges

The Sophomore, Junior, and Senior classes elect members to Who's Who. All names appear in the college yearbook, *THE ARROW*. The Senior members are additionally honored by having their names appear in the annual issue of the national publication, *Who's Who in American Colleges and Universities*. Election is on the basis of a satisfactory scholastic average, personal character, service to the college, and outstanding leadership in extra-curricular activities.

General Programs and Rules

Intercollegiate Sports

The college offers an attractive program of intercollegiate athletics and encourages wide participation by its students. It is a member of the Middle Atlantic Athletic Conference and the National Collegiate Athletic Association. Lycoming annually meets some of the top-ranking small college teams in the country in athletic competition. Contests are scheduled with other colleges in football, basketball, wrestling, baseball, tennis, golf, swimming, and soccer.

Intramural Athletics

An extensive and diversified program of intramural athletic competition affords opportunity for every student to participate in one or more sports of his own choosing.

Sports for men include touch football, basketball, volleyball, bowling, badminton, table tennis, tennis, softball, golf, wrestling, swimming, horseshoes, track and field.

Sports for women include competition in basketball, volleyball, bowling, badminton, table tennis, tennis, softball, swimming, field hockey, archery, and rhythmical activities. Field days are arranged with WAA groups of other colleges and universities during the school year.

Physical Education

Physical Education is one phase of the education of the whole student. It is here that the student develops not only in physical ability, but also in leadership and in proper habits of living. Here students are encouraged to gain and improve skills, attitudes, and knowledge that will provide a sound recreational outlet following graduation. It is to this end that the program of activities is directed.

Physical Education is required of all freshmen and sophomores except veterans, who are exempt. All classes are for the purpose of instruction.

The college accepts no financial responsibility for medical, surgical, or other expenses arising from injuries occurring in physical education classes or the intramural program which exceeds the care provided for in the normal college Infirmary service.

Required Health Information

The following data is required by the College Physician: (1) a medical report signed by the candidate's physician and by his parent or guardian; and (2) a card signed by the physician indicating the basis for any necessary restriction in, or exclusion from, the physical education activity program.

Veterans are exempt from the second requirement.

In connection with the physical examination, all entering students must have a chest X-ray. If this cannot be arranged before entering, the Tuberculosis Society will take chest X-rays at a nominal cost. The student bears the expense of the X-ray.

Infirmary Service

The infirmary fee, included in the over-all activities fee, covers the following medical service: the college nurse holds infirmary hours each day, except Sunday, that the college dormitories are open; she is also available for first aid treatment and will call to the attention of the college physician any case demanding special treatment.

Such service, however, shall not be interpreted to include X-rays, surgery of more than minor nature, care of major accidents on or off campus, immunization for colds, examination for glasses, doctors' calls, cases of serious chronic disorder, or other extraordinary situation.

Special nursing service and special medicines and prescriptions will be at the expense of the student. Parents will be notified by the College when students are confined to the infirmary with serious illnesses.

Student Insurance

By a special group plan, our students are able to secure accident and sickness insurance covering medical and hospital expenses whether at home or at college during one academic year. Reimbursement will be made up to \$500.00 for each accident. All students are advised to carry this protection.

Guidance

An advantage of a small college is the rich experience gained by the close association of students and faculty. In addition to this valuable personal relationship, which affords students the opportunity to discuss various problems with their instructors, Lycoming has a well-rounded guidance program for its students. Under the direction of the Dean of the College, this program includes areas as represented by the Dean of Men, the Dean of Women, and the Guidance Director with his group of faculty advisers.

The program begins with a personal interview between the Director of Admissions and the candidate for admission. These interviews are sufficient in length to obtain a picture of the student, his background, and his plans for the future. When the student enters the College as a Freshman, he is given the opportunity to take aptitude and psychological examinations. On the basis of preparatory or high school grades, interest inventories, and other psychological tests, the student is offered counseling in the area of educational and vocational choice. Additional counseling is available to the student in the area of personal and emotional adjustment. Where specific need is indicated by the student, the Guidance Director is prepared to offer intensive personal adjustment counseling.

At any point in his college career, the student's welfare is the sole purpose of the guidance program. It stands ready to help him make intelligent decisions concerning vocational and educational choices, and to solve important personal problems.

Placement Service

The Placement Bureau maintains a register listing the talents and major interests of students and recent alumni. Literature from businesses and industrial associations is kept available. Consultations with the Placement Director assist students toward wise selection of a profession. Interviews are then scheduled at which students meet and confer with representatives from companies in which they are interested. The goal of the Bureau is to make the best possible connection for each graduate. Lycoming graduates are usually placed before commencement.

There are many diversified businesses in Williamsport. These firms give students at Lycoming splendid opportunities for visits, tours, and career conferences. They also afford the student body a

variety of part-time jobs during each college session. The Placement Bureau serves as a clearinghouse for part-time employment and can usually find work for every student needing it.

Provisions for Veterans

Lycoming is fully approved for the educational program for Veterans under Federal Public Laws 550, 634, and 894.

Dormitory Life

Dormitory life is a significant part of the college experience.

Rooms at Lycoming are furnished as follows: desk, bureau, chair, single bed, mattress, and pillow. Students must supply their own bed linen, blankets, and alarm clocks. The men can make their rooms more attractive by using throw rugs and plastic drapes.

The students will make their own arrangements for laundry service. A local laundry has a representative on campus for the convenience of all boarding students. It is recommended that the student bring a minimum of six sheets (single bed), three pillow cases, and two double blankets.

Discipline

The discipline of the College is firm, reasonable, and sympathetic. All students are considered responsible citizens and members of a Christian community. Any student who is antagonistic to the spirit and general purpose, or who fails to abide by the regulations set up by the College, may be asked to withdraw from the College at any time during the school year.

Regulations

It is understood that students entering Lycoming do so with the intention of making an honest effort to do satisfactory work in every respect. When a student is not able to conform to the school program, the parents or guardians are asked to withdraw the student from the school.

The College regulations, in addition to those published here, are furnished each student upon matriculation. Announcements dur-

ing the year by college authorities may amend or supplement the catalogue regulations and are to be adhered to as such.

Students from a distance are required to reside in the dormitories. Permission for any exception to this rule must be obtained from the administration. When such permission is granted, the place of residence and living accommodations must be approved by the Dean of Women or the Dean of Men.

Money and valuables should be placed in the school safe; otherwise the College will not assume responsibility.

No intoxicants or drinking of intoxicants is permitted on campus.

Students found in an intoxicated condition will be expelled.

Permission to maintain automobiles on the campus must be obtained from the administration and official decals must be secured from the College Bookstore. Freshman men and all resident women are not permitted to maintain automobiles while attending the College.

Firearms for hunting must be deposited with the Dean of Men while on the campus.

Dormitory students are expected to vacate their rooms during the vacation periods. Exceptions must be reported to the Dean of Men.





Academic Program

Standards

Grading System

A credit hour is defined as one hour of classroom work, or the equivalent, each week during a full term of sixteen weeks. Ordinarily two hours of laboratory work are rated as one credit hour.

The number system of grading with the corresponding quality points is used. "3" indicates work of the highest excellence, showing a superior grasp of the content, as well as independent and creative thinking in the subject. "2" signifies better than average achievement wherein the student reveals insight and ability. "1" is given for satisfactory achievement on the college level when work in the course has been conscientious and has shown no considerable deficiency in either quality or quantity. "0" indicates that work in the course has met the minimum essentials. "-1" is failure. Work failed must be repeated satisfactorily before any credit can be obtained for that course.

Scholastic rank is determined on the quality point system where "3" counts 3 quality points per credit hour, "2" counts 2 points per hour, "1" counts 1 point per hour, "0" carries no point value, and "-1" counts -1 point per hour.

Probation

All students who receive an average of .5 or less during the first semester will be placed on academic probation and must attain an average of at least 1.0 during the second semester or be automatically dismissed from the college.

All students who receive an average between .5 and 1.0 during the first semester must attain an average of at least 1.0 during the second semester, or they will be placed on academic probation. Such students must attain at least 1.0 during their subsequent session (either summer school or the fall semester) or they will be dismissed from the college at the conclusion of that session.

The probation rule does not prevent the immediate dismissal of any student who establishes an exceptionally low academic record in any semester.

Dismissal

Freshmen who fail to maintain an average of at least .00 the first year shall be asked to withdraw from the College. Upper classmen whose averages fall below .00 for any semester may be asked to withdraw from the College. The College also reserves the right to deny admission to any applicant or to dismiss any student at any time if the administration considers such action to be for the best interests of the student or the College. Students dismissed for academic reasons may request reinstatement after one semester. Readmission of a student may be refused if in the considered opinion of the Admissions Committee he does not meet all the requirements of the College in the specific curriculum for which readmission has been sought.

Attendance

The program at Lycoming is built on the assumption that there is value in class and assembly and chapel attendance for all students. Therefore, all students are expected to attend all classes and a specified number of assembly and chapel exercises.

Specific regulations as to permissible absences and penalties for excessive absences are announced from time to time. Responsibility for learning and complying with these regulations rests with the student.

Normal Student Load

The normal load per semester for students is from twelve to fifteen hours of academic work and two classes per week of physical education during the first two years. Freshmen also attend one Study Habits class each week.

Overload

Students who wish to carry in excess of the normal load are charged \$17.50 per credit hour. A schedule of more than seventeen hours of academic work may be taken if the student has an average of 2.0 for all previous work and obtains written permission from the Dean of the College or has an average below 2.0 and receives the written permission of a special committee.

Classification of Students

Freshman: See requirements for admission.

Sophomore: Not fewer than 24 semester hours.

Junior: Not fewer than 54 semester hours.

Senior: Not fewer than 86 semester hours and a reasonable chance of completing all requirements for graduation.

Unclassified: Students who do not wish to enter upon a regular course of study may pursue studies offered for which their previous training, in the opinion of the College, fits them. Only a limited number of unclassified students are accepted. Such students are not admitted to candidacy for a degree.

Requirements for Graduation

The College offers courses of study leading to the degrees of Bachelor of Arts and Bachelor of Science. For either degree the minimum requirements are:

120 academic hours, including required courses and one major of at least 24 hours.

120 or more academic quality points on the basis of: "3"—3 points per credit hour; "2"—2 points per credit hour; "1"—1 point per credit hours; "0"—0 points per credit hour.

4 semester hours credit of physical education (not included in the 120 academic hours).

Chapel credit for each fall and spring semester of attendance at Lycoming College ($\frac{3}{4}$ of number of chapel periods per semester).

Religion 111 is required of all students. Non-Protestant students may substitute a second course in Philosophy.

All financial obligations incurred at the college must be paid.

The work of the final year is to be taken at this college, except in the case of students enrolling in the cooperative programs in engineering or forestry as outlined on pages 63, 64, and 65.

Exceptions may also be made in the Medical Technology and the Nursing programs, pages 54 and 55.

Admission

Admissions Policy

The policy of Lycoming College is to admit applicants who, in the opinion of the Admissions Committee are best qualified to profit by the opportunities offered by the College, and who can at the same time make positive contributions to undergraduate life. Due consideration is given not only to academic attainment, as evidenced by school records and examinations, but also to the applicant's character, personality, and interest and accomplishments in extracurricular pursuits.

Admission to Lycoming College is on a competitive basis. Early application, while encouraged, does not assure admission.

Application Procedure

Persons desiring to apply for admission should request official forms from the Director of Admissions.

The Admissions Office compiles a personal file for each applicant and the following items must be submitted before final acceptance is approved:

1. Application for Admission and secondary school record on forms supplied by the College. A registration fee of \$10.00 must accompany each application. This fee is not refundable.
2. A small recent photograph (approximately 2" x 3") of the applicant.
3. A personal interview with the Director of Admissions or an appointed representative.
4. The Scholastic Aptitude Test of the College Entrance Examination Board. Applicants wishing to enter the College in September should arrange to take these examinations no later than March of their senior year.

Applications and schedules for these examinations may be obtained by consulting your high school guidance counselor or principal, or writing to the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

The responsibility for arranging to take these examinations rests with the applicant. However, the Director of Admissions will be glad to advise any applicant on this matter if requested.

Following receipt of the above items, the Admissions Committee will determine those applicants who can be accepted. All applicants will be notified accordingly by letter as promptly as possible. Action of the Admissions Committee must be regarded as final.

Admissions Requirements

The usual evidence of academic preparation to enter Lycoming College is the satisfactory completion of 15 units of high school work as follows:

	<i>English</i>	<i>History</i>	<i>Math.</i>	<i>Science</i>	<i>Elec.</i>
*A.B. Degree	3 (4 yrs.)	1	2	1	8
B.S. Degree	3 (4 yrs.)	1	2	1	8
Medical Sec. (2 years)	3 (4 yrs.)	1	0	1	8
Medical Tech. (2 years)	3 (4 yrs.)	1	2	1	8
Sec. Science (2 years)	3 (4 yrs.)	1	0	0	11

* Pre-engineering students and mathematics majors must include plane geometry as one of the two units of mathematics.

A letter of recommendation from the applicant's private teacher and/or high school music supervisor should accompany the application of music majors.

Terminal Education

In addition to programs leading to the Baccalaureate Degree, Lycoming offers certain two-year terminal courses in Medical Secretarial, Medical Technology, and Secretarial Science. Upon satisfactory completion of these courses, the student is awarded a certificate at the graduation exercises.

Advanced Standing

A limited number of students with advanced standing may be admitted to Lycoming each year. The determining factors in considering such applicants will be their academic records at the previous college, their field of concentration, and the reasons prompting their desire to transfer. All transfer applicants must show evidence of honorable dismissal from their previous college(s), must submit an

official transcript of all work taken at other colleges, and come to the campus for a personal interview. A student admitted with advanced standing is required to be in residence at Lycoming for one academic year. Transfer students must satisfy the College graduation requirements to be awarded a degree.

Some academic credit may be allowed for training courses and educational experiences in the armed services according to the general pattern recommended by *A Guide to the Evaluation of Educational Experiences in the Armed Services*, issued by the American Council on Education, provided such courses or experiences are appropriately related to a college of liberal arts.

Admission to Summer Sessions and Evening Classes

Persons desiring admission to summer sessions or evening classes should apply to the Director of Admissions. All candidates for degrees must meet the same entrance requirements as those attending regular session day classes.

Applicants who hold degrees from other colleges or universities will be admitted as special students. Such applicants should present written evidence stating the field of concentration, the degree, and the date conferred.

All other applicants who desire admission to specific courses will be considered on the basis of preparation and experience.

Admissions Office

The Admissions Office is located on the Campus on the first floor of the Old Main Building. The office is open Monday thru Friday from 9 a. m. to 5 p. m., and on Saturday from 9 a. m. until noon. Appointments for interviews may be arranged by writing or calling the office.

All applicants are invited to visit the campus if possible and to inspect the facilities of the College and meet with some of its officials. Appointments are not required, but visitors are advised to arrange for them if they wish to see particular members of the administrative staff or faculty.

Curricula

Programs of Study

Lycoming College confers the Bachelor of Arts and Bachelor of Science degrees after eight semesters of study normally taken over a course of four years. The Bachelor of Arts is taken in the liberal arts and sciences. It provides broad training in preparation for graduate work or immediate service to the community in places of leadership. Major areas of study include: Art, Biology, Chemistry, Economics, English, History, Language, Mathematics, Music, Philosophy, Physical Science, Political Science, Psychology, Social Science, and Sociology. (Fields of concentration in Social Science may be selected in Economics, History, Sociology, Political Science, or Psychology.) Professional areas of preparation include medicine, dentistry, law, the ministry, art, music, teaching, engineering and forestry. The first four require additional training at professional schools. Engineering and forestry are taken in five year cooperative programs with Bucknell University, The Pennsylvania State University, and Duke University.

The Bachelor of Science is taken in the specific fields of business administration, medical technology, nursing, and teaching. If the student wishes to spend two years in certain fields of study given by the college, a certificate of credit hours completed will be issued at the end of that period. Schedules may be adjusted with a two year program in view.

All schedules are planned individually with an advisor. Entering students plan with the Director of Admissions. Second semester freshmen and sophomores plan with general faculty advisors. Juniors and seniors plan with divisional and department heads.

All seniors, during the first semester of their final year, check with the Registrar for graduation requirements.

Freshman and Sophomore Years

During these first two years the student in the liberal arts and sciences program takes a broad course in general education. He not only has the opportunity to develop wide understanding of the world in which he lives, but also discovers where his own talents and interests lie. Thus he is prepared to choose a major field at the end of his sophomore year.

During the freshman year he takes:

(1) English Composition—This is to develop a facility for reading and writing that will help him in the transition from high school to college level work. One of the requirements of our modern civilization in business as well as the professions is that the individual be able to express himself freely and clearly. Those students who are not adequately prepared in grammar for college study may be required to successfully complete a non-credit course in remedial grammar.

(2) History of Western Civilization—No student can proceed to specific fields of study until he fully understands the backgrounds of our western way of life.

(3) Natural Science—Though there is choice in the field of science that he may study, each student must have an experience in scientific method, which has been the great development in western civilization during this century.

(4) A Foreign Language—Though he may have further choice as to the particular language he studies, no student could expect to understand the small world of today without knowing some other language than his own and also the way in which that language was developed. Understanding the symbols of communication is a major step in the process of abstract thought.

(5) A Survey Course in Cultural Appreciation—It opens up these cultural areas for enrichment of life.

(6) Religion—A broad background study in the historical development of the Hebrew-Christian traditions.

During his sophomore year, he takes:

(1) English and American Literature—Having learned to express himself the student now gets a glimpse of the way the great English and American writers have expressed themselves. This course is a source of future personal reading habits as well as an understanding of our culture.

(2) United States History—Having received the background of western civilization, the student learns our American contribution to the present world scene.

(3) Foreign Language—If the student has not taken sufficient language in secondary school, he must continue his language study for the second year. If he has satisfactorily passed two years of the language in secondary school, he must take only the year of intermediate language in college although he may wish to continue in Advanced Conversation.

(4) Psychology and Political Science—These requirements

introduce him to the fields as well as provide a broad survey for his general background.

(5) Philosophy—This requirement gives him perspective on life as a whole as well as the basic purpose of the College.

From the broad understanding that the student has received and the perspective that he has gained in several fields, he is able to choose a major. This requires at least 24 credit hours in his chosen field. In some cases, courses from different departments may be grouped together to form a major. This leaves a wide range of courses for a minor field of study and electives to broaden his education. He plans his program for the next two years with the divisional or departmental head of his major field of study.

Liberal Arts Curriculum

A candidate for this degree selects graduation requirements from three general divisions as follows:

DIVISION I: HUMANITIES

English Composition	6 hours
Literature	6 hours
Foreign Language	6 or 12 hours
Philosophy and Religion	6 hours
Appreciation of Art	3 hours
Appreciation of Music	3 hours
Chapel and Assembly	hours*

*Assembly and chapel credit for each fall and spring semester that the candidate is in attendance at Lycoming College.

DIVISION II: SOCIAL SCIENCES

Western Civilization	6 hours
American History	6 hours
Psychology	3 hours
Political Science	3 hours

DIVISION III: NATURAL SCIENCES

A Laboratory Science	8 or 10 hours
Physical Education	4 hours

The candidate for the Bachelor of Arts degree chooses a major of at least 24 credit hours from one of the following fields: Art, Biology, Chemistry, Economics, English, History, Language, Mathematics, Music, Philosophy, Physical Science, Political Science, Psychology, Social Science, and Sociology. (Fields of concentration in Social Science may be selected in Economics, History, Sociology, Political Science, or Psychology.)

a. The major in Physical Science consists of (1) first level courses in Chemistry (101-102), Mathematics (101-102), and Physics (101-102), and (2) two years beyond the first level courses in Chemistry, Mathematics, or Physics.

b. The major in Social Science consists of (1) 24 hours in one field of concentration, and (2) 18 hours distributed among all four of the remaining Social Science fields.

Curriculum for A.B. Degree—Basic Schedule

FRESHMAN YEAR			
<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language	3	†Foreign Language	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization) ..	3
*Laboratory Science	4 or 5	*Laboratory Science	4 or 5
Music 130 (Appreciation)	3	Religion 111 (Hebrew-Christian Tradition)	3
#Physical Education 101 or 111 ..	1	#Physical Education 102 or 112 ..	1

SOPHOMORE YEAR			
English 201 or 203 (Literature) ..	3	Art 130 (Appreciation)	3
†Foreign Language	3	English 202 or 204 (Literature) ..	3
History 201 (United States)	3	†Foreign Language	3
Political Science 201 (Am. G't.) ..	3	History 202 (United States)	3
Psychology 201 (General)	3	Philosophy 207 (Introduction) ..	3
#Physical Education 201 or 211 ..	1	#Physical Education 202 or 212 ..	1

*Biology 101-102; Chemistry 101-102; or Physics 101-102.

†French, German, Greek, or Spanish may be elected.

#No academic credit.

A candidate for the A.B. degree must complete four semesters of a foreign language, or two years of foreign language on the high school level with two semesters of the same language on the college level.

JUNIOR AND SENIOR YEARS

Students select prescribed courses and electives to complete degree requirements as outlined in the previous section. Special curricula are listed on following pages, but are only guides and not intended to limit choice where it is possible.

Pre-Medicine

The modern physician or surgeon is no longer one who has studied merely medicine. He is a man with a broad cultural training, capable of treating more than physical ailments. Therefore, medical authorities are recommending a full four years of liberal arts program and are requiring certain specific subjects in preparation for medical school.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Chemistry 101 (General)	5	Chemistry 102 (General)	5
English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language	3	†Foreign Language	3
Mathematics 101 (Algebra)	3	Mathematics 102 (Trigonometry) ..	3
Music 130 (Appreciation)	3	Religion 111 (Hebrew-Christian	
#Physical Education 101 or 111 ..	1	Traditions)	3
		#Physical Education 102 or 112 ..	1

SOPHOMORE YEAR

Biology 101 (General)	4	Biology 102 (General)	4
Chemistry 202 (Quantitative) ..	4	Chemistry 203 (Quantitative)	4
English 201 or 203 (Literature) ..	3	English 202 or 204 (Literature) ..	3
†Foreign Language	3	†Foreign Language	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization) ..	3
#Physical Education 201 or 211 ..	1	#Physical Education 202 or 212 ..	1

JUNIOR YEAR

Biology 201 (Com. Vert. Anat.) ..	4	Biology 302 (Vert. Emb.)	4
Chemistry 301 (Organic)	4	Chemistry 302 (Organic)	4
History 201 (United States)	3	History 202 (United States)	3
Political Science 201 (Am. G't.) ..	3	Physics 101 (General)	5
Sociology 105 (Introduction) ..	3		

SENIOR YEAR

Art 130 (Appreciation)	3	Biology 401 or 402 (Histology or	
Biology 301 or 302 (Physiol. or		Genetics)	4
Vert. Embr.)	4	Philosophy 207 (Introduction) ..	3
Economics 201 (Principles)	3	Psychology 201 (General)	3
Physics 102 (General)	5	Elective	3

†French, German, Greek, or Spanish may be elected.

#No academic credit.

Pre-Dentistry

The American Council on Dental Education has fixed a minimum of two full years of college work as a requirement for entrance to dental schools. However, a four-year course is recommended and the trend toward this has been very rapid following World War II.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Chemistry 101 (General)	5	Chemistry 102 (General)	5
English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language	3	†Foreign Language	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization)	3
Music 130 (Appreciation)	3	Religion 111 (Hebrew-Christian	
#Physical Education 101 or 111 ..	1	Tradition)	3
		#Physical Education 102 or 112 ..	1

SOPHOMORE YEAR

Biology 101 (General)	4	Art 130 (Appreciation)	3
Chemistry 202 (Quantitative) ..	4	Biology 102 (General)	4
English 201 or 203 (Literature) ..	3	Chemistry 203 (Quantitative)	4
†Foreign Language	3	English 202 or 204 (Literature) ..	3
Psychology 201 (General)	3	†Foreign Language	3
#Physical Education 201 or 211 ..	1	#Physical Education 202 or 212	1

JUNIOR YEAR

Biology 201 (Com. Vert. Anat.) ..	4	Biology 302 (Vert. Embr.)	4
Chemistry 301 (Organic)	4	Chemistry 302 (Organic)	4
History 201 (United States)	3	History 202 (United States)	3
Mathematics 101 (Algebra)	3	Physics 101 (General)	5
Mathematics 102 (Trigonometry) ..	3		

SENIOR YEAR

Biology 301 or 401		Philosophy 207 (Introduction) ..	3
(Physiol. or Histology)	4	Elective	12
Economics 201 (Principles)	3		
Political Science 201			
(Amer. Gov't.)	3		
Physics 102 (General)	5		

†French, German, Greek, or Spanish may be elected.

#No academic credit.

Pre-Law

Many law schools are at present requiring the Bachelor of Arts degree for admission. Training in law is not only basic to the practice of law but also makes possible many other forms of public service.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language	3	†Foreign Language	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization)	3
Laboratory Science	4 or 5	Laboratory Science	4 or 5
Music 130 (Appreciation)	3	Religion 111 (Hebrew-Christian Tradition)	3
#Physical Education 101 or 111 ..	1	#Physical Education 102 or 112	1

SOPHOMORE YEAR

English 201 or 203 (Literature) ..	3	English 202 or 204 (Literature) ..	3
†Foreign Language	3	†Foreign Language	3
History 201 (United States)	3	History 202 (United States)	3
Political Science 201 (Amer. Gov't.)	3	Philosophy 207 (Introduction) ..	3
Psychology 201 (General)	3	Political Science 202 (State and Local)	3
#Physical Education 201 or 211 ..	1	#Physical Education 202 or 212	1

JUNIOR YEAR

Business 101 (Accounting)	3	Business 102 (Accounting)	3
Economics 201 (Principles)	3	Economics 202 (Principles)	3
History 302 (Amer. For. Rel.) ..	3	History 323 (English)	3
Political Science 301 (Prin.)	3	Political Science 302 (Pol. Parties)	3
Sociology 105 (Introduction)	3	Sociology 202 (Marriage and Family)	3

SENIOR YEAR

Political Science 303 (Comp. Gov't.)	3	Art 130 (Appreciation)	3
Speech 105 (Fundamentals)	3	Political Science 304 (Mun. Gov't.)	3
Elective—Economics, History	9	Elective	9

†French, German, Greek, or Spanish may be elected.

#No academic credit.

Pre-Ministerial

In a statement on pre-seminary studies issued by the American Association of Theological Schools, it is suggested that a student acquire a total of 90 semester hours in the areas listed below. A major in philosophy, English, history, or the social sciences is recommended.

English (Composition, Literature, Speech)	12-18 sem. hrs.
Philosophy (Introduction, History of Philosophy, Ethics, Logic)	6-12 sem. hrs.
Religion	4- 6 sem. hrs.
History	6-12 sem. hrs.
Psychology	3 sem. hrs.
Foreign Language	12-15 sem. hrs.
Natural Sciences (Physical or Biological)	4 sem. hrs.
Social Sciences (Sociology, Political Science, Social Psychology)	3- 6 sem. hrs.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language	3	†Foreign Language	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization)	3
Laboratory Science	4 or 5	Laboratory Science	4 or 5
Religion 111 (Hebrew-Christian Tradition)	3	Music 130 (Appreciation)	3
#Physical Education 101 or 111 ..	1	#Physical Education 102 or 112	1

SOPHOMORE YEAR

English 201 (Literature)	3	Art 130 (Appreciation)	3
†Foreign Language	3	English 202 (Literature)	3
History 201 (United States)	3	†Foreign Language	3
Psychology 201 (General)	3	History 202 (United States)	3
Sociology 105 (Introduction)	3	Philosophy 207 (Introduction) ..	3
#Physical Education 201 or 211 ..	1	#Physical Education 202 or 212	1

JUNIOR YEAR

English 203 (Literature)	3	English 204 (Literature)	3
Philosophy 305 (Logic)	3	Philosophy 402	
Political Science 201		(Hist. Modern Phil.)	3
(Amer. Gov't.)	3	Religion 411	
Elective	6	(Rel. of the World)	3
		Speech 105 (Fundamentals)	3
		Elective	3

SENIOR YEAR

Elective	15	Elective	15
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The schedules for the junior and senior years should be based on the requirements of the theological school of your choice and the advice of the instructor in charge of counseling ministerial students.

†French, German, Greek, or Spanish may be elected.

#No academic credit.

Art Major

A major in Art consists of 30 hours of which 9 hours are courses in art theory.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Art 141 (Design)	3	Art 142 (Design)	3
English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language	3	†Foreign Language	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization)	3
Music 130 (Appreciation)	3	Religion 111 (Hebrew-Christian Tradition)	3
#Physical Education 101 or 111 ..	1	#Physical Education 102 or 112 ...	1

SOPHOMORE YEAR

Art 143 (Drawing I)	3	Art 144 (Drawing I)	3
Art 245 (Painting I)	3	Art 246 (Painting I)	3
English 201 or 203 (Literature) 3		English 202 or 204 (Literature) ..	3
†Foreign Language	3	†Foreign Language	3
History 201 (United States)	3	History 202 (United States)	3
#Physical Education 201 or 211 ..	1	#Physical Education 202 or 212	1

JUNIOR YEAR

Laboratory Science	4 or 5	Art 130 (Appreciation)	3
Political Science 201 (Amer. Gov't.)	3	Laboratory Science	4 or 5
Elective—Academic	3	Philosophy 207 (Introduction) ..	3
Elective—Art	3	Elective—Academic	3
		Elective—Art	3

SENIOR YEAR

Elective—Art	3	Elective	15
Elective	12		

†French, German, Greek, or Spanish may be elected.

#No academic credit.





Music Major

The music major consists of 30 hours adequately distributed in Principles, History and Literature, and Applied Music.

Students concentrating in fields of performance other than piano must complete the preparatory courses in piano to receive the degree.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition) ..	3
†Foreign Language	3	†Foreign Language	3
Music 121 (Theory)	4	Music 122 (Theory)	4
Music 130 (Appreciation)	3	Music—Applied	1½
Music—Applied	1½	Music—Ensemble	
Music—Ensemble		Religion 111 (Hebrew-Christian Tradition)	3
#Physical Education 101 or 111 ..	1	#Physical Education 102 or 112 ..	1

SOPHOMORE YEAR

English 201 or 203 (Literature) ..	3	English 202 or 204 (Literature) ..	3
†Foreign Language	3	†Foreign Language	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization) ..	3
Music 221 (Theory)	4	Music 222 (Theory)	4
Music—Applied	1½	Music—Applied	1½
Music—Ensemble		Music—Ensemble	
#Physical Education 201 or 211 ..	1	#Physical Education 202 or 212 ..	1

JUNIOR YEAR

History 201 (United States)	3	Art 130 (Appreciation)	3
Laboratory Science	4 or 5	History 202 (United States)	3
Music 307 (History of)	3	Laboratory Science	4 or 5
Music—Applied	1½	Music 308 (History of)	3
Music—Ensemble		Music—Applied	1½
		Music—Ensemble	

SENIOR YEAR

Music Electives from 300-400		Elective	15
Offerings	9		
Philosophy 207 (Introduction) ..	3		
Elective	3		

Note: Ensemble work required but no academic credit is granted.

†French, German, Greek, or Spanish may be elected.

#No academic credit.

Secondary Education—A.B. Degree

Eighteen hours in the field of education are required for certification in Pennsylvania. These must include Introduction to Teaching, 3 hours; Educational Psychology, 3 hours; Practice Teaching, 6 hours; and 6 hours of electives in education. The Department of Public Instruction requires a basic course in American and Pennsylvania History, a requirement satisfied by History 201 or 202.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language	3	†Foreign Language	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization)	3
Laboratory Science	4 or 5	Laboratory Science	4 or 5
Music 130 (Appreciation)	3	Religion 111 (Hebrew-Christian Tradition)	3
#Physical Education 101 or 111 ..	1	#Physical Education 102 or 112	1

SOPHOMORE YEAR

Education 201 (Introduction) ..	3	Art 130 (Appreciation)	3
English 201 or 203 (Literature)	3	English 202 or 204 (Literature) ..	3
†Foreign Language	3	†Foreign Language	3
History 201 (United States)	3	History 202 (United States)	3
Psychology 201 (General)	3	Political Science 201 (Amer. Gov't.)	3
#Physical Education 201 or 211 ..	1	#Physical Education 202 or 212	1

JUNIOR YEAR

Elective—Academic	9	Elective—Academic	9
Elective—Educational	3	Elective—Educational	3
Psychology 309 (Educational) ..	3	Philosophy 207 (Introduction) ..	3

SENIOR YEAR

Elective	15	Education 401 (Practice Teach.)	6
		Elective	9

†French, German, Greek, or Spanish may be elected.

#No academic credit.

Secondary Education—B.S. Degree

Students desiring to major in education may elect the Bachelor of Science curriculum which parallels the program outlined above. No foreign language is required but additional courses in education are substituted and courses in speech are recommended. Otherwise the requirements are the same.

Elementary Education—A.B. Degree

Thirty hours of elementary education are required in addition to Introduction to Education and Educational Psychology for certification in Pennsylvania.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
Foreign Language	3	Foreign Language	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization)	3
Laboratory Science	4 or 5	Laboratory Science	4 or 5
Music 130 (Appreciation)	3	Religion 111 (Hebrew-Christian Tradition)	3
Physical Education 101 or 111 ..	1	Physical Education 101 or 112	1

SOPHOMORE YEAR

Education 201 (Introduction) ..	3	Education 231	
English 201 or 203 (Literature) ..	3	(Art in Elem. School)	2
Foreign Language	3	Education 232	
History 201		(Music in Elem. School)	2
(United States and Pa.)	3	English 202 or 204 (Literature) ..	3
Psychology 201 (General)	3	Foreign Language	3
Physical Education 201 or 212 ..	1	History 202	
		(United States and Pa.)	3
		Elective—Educational	2
		Physical Education 202 or 212	1

JUNIOR YEAR

Education 233		Art 130 (Appreciation)	3
(Health and Safety)	2	Political Science 201	
Psychology 309 (Educational) ..	3	(Amer. Gov't.)	3
Elective—Education	4	Elective—Education	3
Elective—Major	6	Elective—Major	6

SENIOR YEAR

Education 400 (Practice Teach.) ..	6	Education 400 (Practice Teach.) ..	6
Philosophy 207 (Introduction) ..	3	Elective—Education	3
Elective—Major	6	Elective—Major	6

Note: 1. Education electives must be in the elementary education field. Educ. 303, Audio-Visual Education, and Psy. 308, Child Psychology, may be used as electives in the elementary field.

2. A speech course is recommended.

3. Mathematics majors should begin their major in the freshman year.

Elementary Education—B.S. Degree

Above schedule with no foreign language but six additional hours of education.

Medical Technology

It is the aim of this course to supply an academic background of the basic science courses and then a year of practical work in the field, leading to the B.S. degree and greater professional opportunities in the medical and hospital laboratories.

At least 12 semester hours in biology are required, including General Biology (8 semester hours). Additional courses may be chosen from the following: Microbiology, Physiology, Anatomy, Embryology, and Histology.

In chemistry General Inorganic Chemistry (8 semester hours), and Quantitative Analysis (4 semester hours) are required. Organic Chemistry and Bio-Chemistry are recommended but not required.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Biology 101 (General)	4	Biology 102 (General)	4
Chemistry 101 (General)	5	Chemistry 102 (General)	5
English 101 (Composition)	3	English 102 (Composition)	3
History 111 or 201		History 112 or 202	
(W. Civilization or U. S.)	3	(W. Civilization or U. S.)	3
#Physical Education 101 or 111 ..	1	#Physical Education 102 or 112	1

SOPHOMORE YEAR

*Biology	4	*Biology	4
English 201 or 203 (Literature) ..	3	Chemistry 203 (Quantitative)	4
Religion 111 (Hebrew-Christian Tradition)	3	English 202 or 204 (Literature) ..	3
Elective	6	Elective	6
#Physical Education 201 or 211 ..	1	#Physical Education 202 or 212	1

*Select from these courses: Biology 103, 104, and 114, 201, 301, 302, 401.

JUNIOR YEAR

The junior year will consist of an internship of a full calendar year at a hospital accredited in the Registry of Medical Technologists of the American Society of Clinical Pathologists. The College will not give credit for the year unless it is informed that the student has successfully passed the examinations given by The Registry of Medical Technologists of the American Society of Clinical Pathologists. The College will not charge any tuition for the work of the junior year.

SENIOR YEAR

Art 130 (Appreciation)	3	Music 130 (Appreciation)	3
Political Science 201 (Am. G't) ..	3	Philosophy 207 (Introduction) ..	3
Psychology 201 (General)	3	Political Science 202	
Sociology 105 (Introduction)	3	(State and Local)	3
Elective	3	Elective	6

#No academic credit.

Terminal course includes first two years.

Nursing

The five-year Nursing Plan, which leads to the B.S. degree, offers to young women an opportunity to obtain a liberal arts education in connection with a nurse's education.

The program of the first three years consists of the regular nursing training curriculum taken in the School of Nursing at the Williamsport Hospital. If a student enters from another school of nursing approved by the Pennsylvania State Board of Nurse Examiners where no college science courses are offered, she must also take Chemistry 103, Biology 103, and Biology 104 and 114. To qualify for the college degree, passing of the State Board Examinations is required.

Students who take their nursing training in some other state must present equivalent training to that required in Pennsylvania.

FIRST YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Chemistry 101 (General)	5	Chemistry 101 (General)	5
Education 201 (Introduction) ..	3	English 102 (Composition)	3
English 101 (Composition)	3	History 112 or 202	
History 111 or 201		(W. Civilization or U. S.)	3
(W. Civilization or U. S.)	3	Music 130 (Appreciation)	
Sociology 105 (Introduction)	3	Psychology 201 (General)	3
#Physical Education 111	1	#Physical Education 112	1

SECOND YEAR

Art 130 (Appreciation)	3	Biology 102 (Zoology)	4
English 201 (Literature)	3	English 202 (Literature)	3
Mathematics 100 (Intern. Alg.)	3	Philosophy 207 (Introduction) ..	3
Psychology 309 (Educational) ..	3	Political Science 201	
Religion 111 (Hebrew-Christian		(Amer. Gov't.)	3
Tradition)	3	Psychology 308 (Child)	3
*Elective—Education	3	#Physical Education 212	1
#Physical Education 211	1		

*Select from these courses: Education 304, 306. Sociology 302.

#No academic credit.

Business Administration Curriculum

A candidate for this degree program selects graduation requirements from four divisions as follows:

DIVISION I: HUMANITIES

English Composition	6 hours
Literature	6 hours
Philosophy and Religion	6 hours
Appreciation of Art	3 hours
Appreciation of Music	3 hours
Chapel and Assembly	hours*

DIVISION II: SOCIAL SCIENCE

Western Civilization or American History	6 hours
Psychology	3 hours
Political Science	6 hours**
Sociology	3 hours

DIVISION III: SCIENCES

Physical Science and Biological Science	6 hours
Physical Education	4 hours

DIVISION IV: BUSINESS ADMINISTRATION AND ECONOMICS

Accounting Principles	6 hours
Business Mathematics and Statistics	6 hours
Business Law	8 hours
Economic Principles	6 hours**
Money and Banking	3 hours
Organization and Financial Management of Business Units	3 hours

* Assembly and chapel credit for each fall and spring semester that the candidate is in attendance at Lycoming College.

** Three hours each required for the Executive Secretarial Science major.

The candidate for the Bachelor of Science degree may select a major of at least 24 hours from one of the following fields: Accounting, Banking and Finance, Economics, Retail Distribution, General Business Administration, or Executive Secretarial Science.

1. *Majors in Accounting—24 hours*

Sophomore year—elect Business 215, 216 (Intermediate Accounting).

Junior and Senior years—elect from Business 311, 312, 313, 314, 423, 424, 425, 426, and 431.

2. *Majors in Banking and Finance—24 hours*

Sophomore year—elect Business 215, 216 (Intermediate Accounting).

Junior and Senior years—elect from Business 304 (Credits and Collections), Business 308 (Investment), Business 313 (Federal Income Tax Law and Accounting), Business 314 (Current Federal Income Tax Law Practice), Business 327 (Money and Banking), Business 401 (Real Estate), Business 402-403 (Insurance), Economics 405 (Public Finance), Business 406 (Bank Policies and Procedures).

3. *Majors in Retail Distribution—24 hours*

Junior and Senior years—elect from Business 305 (Marketing), Business 341-342 (Principles of Retailing I and II), Business 345 (Retail Advertising and Sales Promotion), Business 346 (Retail Salesmanship), Business 428 (Personnel Management), Business 441 (Retail Buying and Merchandising), Business 445-446 (Retail Problems I and II).

4. *Majors in Economics—24 hours beyond Economics 201, 202.*

5. *Majors in Executive Secretarial Science—outlined on page 59.*

6. *Majors in General Business Administration—at least 24 hours.*

Courses elected in the field of Business Administration and/or Economics beyond the basic required courses.

Business Administration—Basic Schedule

The Business Administration Course contains highly practical courses in the field of Business and Economics. In addition, the elements of a broad, cultural background, valuable in preparation for positions of an administrative and executive nature are retained.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Business 101 (Accounting)	3	Business 102 (Accounting)	3
Business 110 (Mathematics)	3	Business 111 (Statistics)	3
English 101 (Composition)	3	English 102 (Composition)	3
Music 130 (Appreciation)	3	Religion 111 (Hebrew-Christian	
Science 101 (Physical)	3	Tradition)	3
#Physical Education 101 or 111 ..	1	Science 102 (Biological)	3
		#Physical Education 102 or 112	1

SOPHOMORE YEAR

*Art 130 (Appreciation)	3	*Sociology 105 (Introduction)	3
Economics 201 (Principles)	3	Economics 202 (Principles)	3
English 201 or 203 (Literature) ..	3	English 202 or 204 (Literature) ..	3
History 111 or 201		History 112 or 202	
(W. Civilization or U. S.)	3	(W. Civilization or U. S.)	3
Political Science 201		Political Science 202	
(Amer. Gov't.)	3	(State and Local)	3
#Physical Education 201 or 211 ..	1	#Physical Education 202 or 212	1

JUNIOR YEAR

Business 302 (Law)	4	Business 303 (Law)	4
Business 326		Business 307 (Organization and	
(Money and Banking)	3	Financial Mgt. of Bus. Units) ..	3
Psychology 201 (General)	3	Philosophy 207 (Introduction) ..	3
Elective	6	Elective	6

SENIOR YEAR

Elective	15	Elective	15
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*Majors in Accounting substitute Business 215-216 (Accounting) and take Art 130 and Sociology 105 in the junior year.

*Majors in Banking and Finance should also take Business 215-216.

#No academic credit.

Note: A laboratory science may be substituted for the Science 101-102 survey course.

Executive Secretarial Science Major

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Business 101 (Accounting)	3	Business 102 (Accounting)	3
English 101 (Composition)	3	Business 112 (Computations)	3
Music 130 (Appreciation)	3	English 102 (Composition)	3
Science 101 (Physical)	3	Religion 111 (Hebrew-Christian	
Sociology 105 (Introduction)	3	Tradition)	3
#Physical Education 101 or 111 ..	1	Science 102 (Biological)	3
		#Physical Education 102 or 112	1

SOPHOMORE YEAR

Business 127 (Shorthand)	3	Business 128 (Shorthand)	3
Business 129 (Typing)	3	Business 130 (Typing)	3
Economics 201 (Principles)	3	Economics 202 (Principles)	3
English 201 or 203 (Literature) ..	3	English 202 or 204 (Literature) ..	3
History 111 or 201		History 112 or 202	
(W. Civilization or U. S.)	3	(W. Civilization or U. S.)	3
#Physical Education 201 or 211 ..	1	#Physical Education 202 or 212	1

JUNIOR YEAR

Art 130 (Appreciation)	3	Business 220 (Correspondence) ..	3
Business 219 (Grammar)	3	Business 223 (Office Machines) ..	3
Business 227 (Shorthand)	3	Business 228 (Shorthand)	3
Business 229 (Typing)	3	Business 230 (Typing)	3
Philosophy 207 (Introduction) ..	3	Psychology 201 (General)	3

SENIOR YEAR

Business 302 (Law)	4	Business 222 (Office Practice)	3
Business 326		Business 303 (Law)	4
(Money and Banking)	3	Business 307 (Organization and	
Political Science 201		Financial Mgt. of Bus. Units) ..	3
(Amer. Gov't.)	3	Elective	6
Elective	6		

#No academic credit.

Note: Students in the terminal secretarial science course, by adjusting the above schedule, may continue for the B.S. degree.

Terminal Course in Secretarial Science

Lycoming offers a two-year course in Secretarial Science. This course provides students with the opportunity to develop office skills required for secretarial work.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Business 101 (Accounting)	3	Business 112 (Computations)	3
*Business 127 (Shorthand)	3	*Business 128 (Shorthand)	3
*Business 129 (Typing)	3	*Business 130 (Typing)	3
Economics 201 (Principles)	3	English 102 (Composition)	3
English 101 (Composition)	3	Religion 111 (Hebrew-Christian	
#Physical Education 111	1	Tradition)	3
		#Physical Education 112	1

SOPHOMORE YEAR

Business 219 (Grammar)	3	Business 220 (Correspondence) ..	3
Business 223 (Office Machines)	3	Business 222 (Office Practice)	3
Business 227 (Shorthand)	3	Business 228 (Shorthand)	3
Business 229 (Typing)	3	Business 230 (Typing)	3
Business 302 (Law)	4	Business 303 (Law)	4
#Physical Education 211	1	#Physical Education 212	1

*Examinations may be taken during the freshman orientation week to prove competence in either or both of the subjects by students who have completed high school courses with high grades. If test results are satisfactory, electives may be substituted.

#No academic credit.

Terminal Course in Medical Secretarial

The Medical Secretarial Course offers students a basic science background in addition to secretarial skills. This course is especially desirable for those preparing for Medical or Dental Secretarial positions.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Business 101 (Accounting)	3	Biology 102 (General)	4
*Business 127 (Shorthand)	3	*Business 128 (Shorthand)	3
*Business 129 (Typing)	3	*Business 130 (Typing)	3
English 101 (Composition)	3	Business 214 (Med. Short.)	1
Religion 111 (Hebrew-Christian Tradition)	3	English 102 (Composition)	3
#Physical Education 111	1	Sociology 105 (Introduction)	3
		#Physical Education 112	1

SOPHOMORE YEAR

Business 214 (Med. Short.)	3	Biology 104 (Anat. and Phys.)	3
Business 219 (Grammar)	3	Business 220 (Correspondence)	3
Business 227 (Shorthand)	3	Business 222 (Office Practice)	3
Business 229 (Typing)	3	Business 228 (Shorthand)	3
Business 243 (Med. Off. Tech.)	1½	Business 234 (Med. Trans.)	1
Chemistry 103 (Applied)	4	Business 244 (Med. Off. Tech.)	1½
#Physical Education 211	1	Psychology 201 (General)	3
		#Physical Education 212	1

*Examinations may be taken during the freshman orientation week to prove competence in either or both of the subjects by students who have completed high school courses with high grades. If test results are satisfactory, electives may be substituted.

#No academic credit.

Two-Year Course in Pre-Engineering

This course is designed to give the student basic pre-professional courses in the field of engineering. The course recommended below is for all engineering students except chemical-engineers. Chemical engineers will consult with the Registrar or Head of the Science Division.

To meet requirements of Engineering schools, the student must carry more than the normal load each semester.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Chemistry 101 (General)	5	Chemistry 102 (General)	5
Drawing 101 (Engineering)	3	Drawing 103 (Descript. Geom.) ..	3
English 101 (Composition)	3	English 102 (Composition)	3
Mathematics 201		Mathematics 202 (Diff. Calc.)	4
(Analytic Geometry)	4	Physics 101 (General)	5
Speech 105 (Fundamentals)	3	#Physical Education 102	1
#Physical Education 101	1		

SOPHOMORE YEAR

Economics 201 (Principles)	3	Economics 309	
English 201 (Literature)	3	(Econ. Dev. U. S.)	3
Mathematics 301 (Int. Calc.) ..	4	History 202 (United States)	3
Physics 102 (General)	5	Mathematics 302 (Diff. Equ.)	4
Religion 111 (Hebrew-Christian Tradition)	3	Physics 201 (Statics)	3
		Elective	6
#Physical Education 201	1	#Physical Education 202	1

#No academic credit.

Note: Students who do not have competence in algebra and/or trigonometry may be required to take Mathematics 101 and/or Mathematics 102 for which credit will not be granted by the engineering school which awards the degree.

Cooperative Program in Engineering

Lycoming College furnishes a program for engineering students which combines the advantages of the smaller liberal arts college with the training to be secured at a large engineering school. By arrangement with Bucknell University, and The Pennsylvania State University, the College offers a five-year course, the first three years of which are spent at Lycoming, the final two at Bucknell in Chemical, Civil, Electrical, or Mechanical Engineering, or at The Pennsylvania State University in Aeronautical, Civil, Sanitary, Electrical, Industrial, or Mechanical Engineering.

Students preparing for chemical engineering at Bucknell will rearrange schedule and study Chemistry 101-102 in the sophomore year and Chemistry 201 and 205 in place of Physics 201, 202, and 207 later. Chemical engineers will consult with the Registrar or the Head of the Natural Sciences Division.

The student's three years at Lycoming include prescribed work in English, foreign language, chemistry, mathematics, and physics. At Bucknell University, or The Pennsylvania State University, the student will specialize in his chosen field in engineering or applied science for the remaining two years.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Drawing 101 (Engineering)	3	Drawing 103 (Desc. Geom.)	3
English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language	3	†Foreign Language	3
Mathematics 201		Mathematics 202 (Diff. Calc.) ..	4
(Anal. Geom.)	4	Physics 101 (General)	5
Music 130 (Appreciation)	3	#Physical Education 102	1
#Physical Education 101	1		

SOPHOMORE YEAR

English 201 or 203 (Literature) ..	3	English 202 or 204 (Literature) ..	3
†Foreign Language	3	†Foreign Language	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization)	3
Mathematics 301 (Int. Calc.) ..	4	Mathematics 302 (Diff. Equa.) ..	4
Physics 102 (General)	5	Physics 201 (Statics)	3
#Physical Education 201	1	#Physical Education 202	1

†French, German, Greek, or Spanish may be elected.

#No academic credit.

JUNIOR YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Art 130 (Appreciation)	3	Chemistry 102 (General)	5
Chemistry 101 (General)	5	History 202 (United States)	3
Economics 201 (Principles)	3	Philosophy 207 (Introduction) ..	3
History 201 (United States)	3	Religion 111 (Hebrew- Christian Tradition)	3
Physics 202 (Strength of Mat) 3		Elective—Math. or Physics	6
Psychology 201 (General)	3		

Cooperative Program in Forestry

Lycoming College furnishes a program for forestry students which combines a strong liberal arts and science background with professional training in forestry at the Duke School of Forestry, Duke University, Durham, North Carolina.

The program as established is of five years duration. A student electing to pursue this program of study will spend three years at Lycoming where he will meet the liberal arts degree requirements, including such subjects as English, foreign language, biology, chemistry, physics, mathematics, and economics.

Upon the satisfactory completion of these three years' work at Lycoming, the student will apply for admission to the Duke School of Forestry for one summer and two years of training in forestry. At the end of his first year at Duke, his record will be sent to Lycoming when, if the work is satisfactory for this fourth year in college, the bachelor of arts degree will be awarded. Upon the satisfactory completion of the second year in the forestry school, the professional degree, Master of Forestry, will be awarded by Duke.

Candidates for this program should indicate their intentions to the Director of Admissions when applying for admission.

FRESHMAN YEAR

English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language	3	†Foreign Language	3
History 111 (W. Civilization)..	3	History 112 (W. Civilization) ..	3
Mathematics 101 (Algebra)	3	Physics 101 (General)	5
Mathematics 102 (Trig.)	3	Music 130 (Appreciation)	3
#Physical Education 101	1	#Physical Education 102	1

†French, German, Greek, or Spanish may be elected.

#No academic credit.

SOPHOMORE YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Biology 101 (Botany)	4	Biology 102 (Zoology)	4
English 201 or		English 202 or	
203 (Literature)	3	204 (Literature)	3
†Foreign Language	3	†Foreign Language	3
History 201 (United States)	3	History 202 (United States)	3
Physics 102 (General)	5	Mathematics 201 (Anal. Geom.) ..	4
#Physical Education 201	1	#Physical Education 202	1

JUNIOR YEAR

Chemistry 101 (General)	5	Art 130 (Appreciation)	3
Economics 201 (Principles)	3	Chemistry 102 (General)	5
Mathematics 202 (Diff. Calc.)..	4	Philosophy 207 (Introduction) ..	3
Political Science 201		Religion 111 (Hebrew-	
(Amer. Gov't.)	3	Christian Tradition)	3
Psychology 201 (General)	3	Elective	3

†French, German, Greek, or Spanish may be elected.

#No academic credit.

Courses

The courses of instruction are arranged in four divisions and a department of education.

Divisions

GROUP I. HUMANITIES.

Art, English, French, German, Greek, Music, Philosophy, Religion, Spanish, Speech.

GROUP II. SOCIAL SCIENCES

Economics, History, Political Science, Psychology, Sociology.

GROUP III. NATURAL AND PHYSICAL SCIENCES

Biology, Chemistry, Drawing, Mathematics, Physical Education, Physics, Science Survey.

GROUP IV. BUSINESS ADMINISTRATION.

Business Administration, Economics, Secretarial Science.

In a detailed description of the courses that follow, the courses of instruction are listed alphabetically by subject matter for the convenience of the reader.

Courses numbered in the one hundreds are commonly first year subjects; those in the two hundreds are second year subjects; the three hundreds are third year or junior subjects; and the four hundreds are fourth year or senior subjects.

The college reserves the right to withdraw any course for which there are fewer than ten students enrolled.

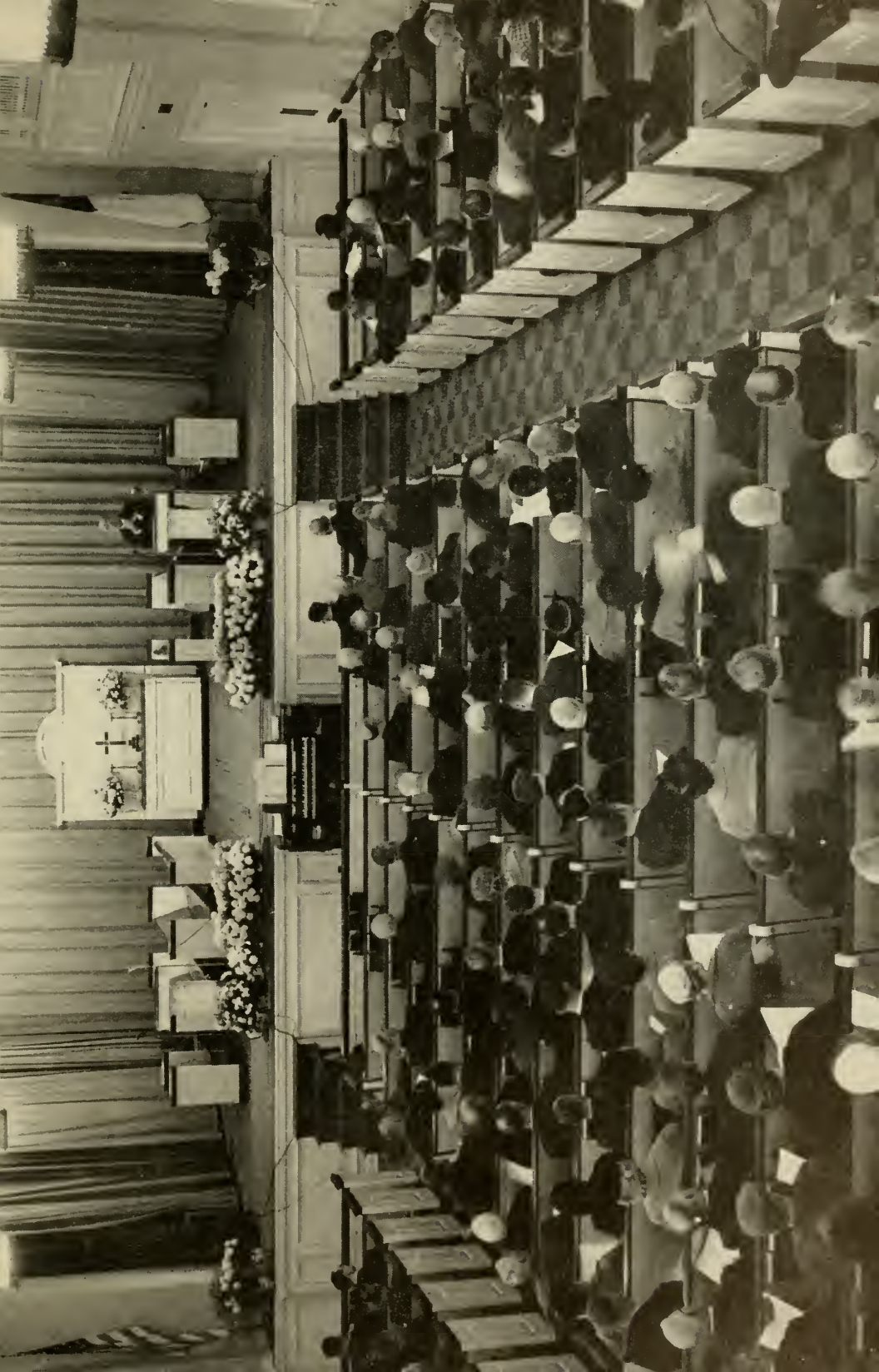
Art

Assistant Professor CHANDLER

Instructor MICHOU

A major in Art consists of 30 hours of which 9 hours are in art theory.

130. APPRECIATION OF ART. A general introduction to the history and appreciation of Western Art, from Prehistoric Art in Europe to Con-





temporary Art. Films and slides will be used to illustrate the lectures. Three class periods each week.

Three hours credit.

141-142. DESIGN I. An introduction to the basic principles of design. Special emphasis will be given to developing the student's creative ability by means of problems in two-dimensional and three-dimensional design involving line, form, tone, volume, and space. Considerable emphasis will be placed on color. Six class periods each week.

Three hours credit each semester.

143-144. DRAWING I. The course is designed to acquaint the student with various drawing media, as he creates drawings of still-life, landscape, and figure subjects. Six class periods each week.

Three hours credit each semester.

243-244. DRAWING II. Continuation of Art 143-144. Six class periods each week.

Three hours credit each semester.

245-246. PAINTING I. The purpose of this course is to acquaint the student with various painting media, such as oil, watercolor, and gouache. The student will be encouraged to create and develop his own ideas in his search for a suitable technique and method of expressing himself. Six class periods each week.

Three hours credit each semester.

308. MEDIEVAL ART. A study of visual art forms of the medieval period, with particular stress on Romanesque and Gothic churches. Assigned readings, films, slides, and lectures.

Three hours credit.

313-314. COMPOSITION. The purpose of this course is to acquaint the student with the basic fundamentals which govern the arrangement, or placement, of the various elements which form a work of art.

Three hours credit each semester.

341-342. APPLIED DESIGN. The contemporary spirit will be fostered as the student engages in various crafts, such as blockprinting, gesso, and silk-screen printing. Six class periods each week.

Three hours credit each semester.

345-346. PAINTING II. A continuation of Art 245-246. Six class periods each week.

Three hours credit each semester.

407. AMERICAN ART. The visual arts in American life from the seventeenth century to the present, with special emphasis on Pennsylvania's contribution to the development of American Art. Slides and films will be

used to illustrate the lectures. Visits to the local museum and other places of art interest in the area. Three class periods each week.

Three hours credit.

409. CONTEMPORARY ART. The contemporary idiom in the visual arts. Divergent trends as revealed by a study of some of the well-known contemporary artists, their lives, and works. Emphasis on the men who have made a distinct contribution to the origin and development of new ideas in the field of art today. Films and slides will be used to illustrate the lectures. Three class periods each week.

Three hours credit.

445-446. PAINTING III. Continuation of Art 345-346. Six class periods each week.

Three hours credit each semester.

Biology

Professor SHORTESS

Associate Professor HOWE

Assistant Professor YOON

24 hours of biology are required for a major in this field.

101. GENERAL BIOLOGY (Botany). An introduction to the principles of biology, including a systemic study of characteristic types of plants. Two hours lecture and recitation and two two-hour laboratory periods each week.

Four hours credit.

102. GENERAL BIOLOGY (Zoology). An introduction to the principles of biology, including a systemic study of characteristic types of animals. Two hours lecture and recitation and two two-hour laboratory periods each week.

Four hours credit.

103. MICROBIOLOGY. This course emphasizes the study of microorganisms that affect mankind, especially those that cause diseases. Laboratory exercises deal with elementary bacteriological techniques and plant and animal parasites. Three hours lecture and recitation and one two-hour laboratory period each week.

Four hours credit.

104. ANATOMY AND PHYSIOLOGY. A basic study of the structures and functions of the systems of the human body.

Three hours credit.

107. BOTANY. More specialized and advanced study of plants than is offered in General Biology. Two hours lecture and recitation and two hours laboratory each week.

Three hours credit.

108. BOTANY. A study of the classification of plants and their distribution. Two hours lecture and recitation and two hours laboratory each week.

Three hours credit.

114. ANATOMY AND PHYSIOLOGY LABORATORY. Two hours laboratory each week. Biology 104 is a corequisite.

One hour credit.

201. COMPARATIVE VERTEBRATE ANATOMY. Deals with dissections of representative vertebrates. Two hours lecture and recitation and two two-hour laboratory periods each week.

Prerequisite, Biology 101-102.

Four hours credit.

301. PHYSIOLOGY. A study of the physiological processes of the human body. Two hours lecture and two two-hour laboratory periods each week.

Prerequisite, Biology 201.

Four hours credit.

302. VERTEBRATE EMBRYOLOGY. The study of the development of an amphibian, the chick, and a mammal, from fertilization of the egg to fully formed embryo. Two hours lecture and two two-hour laboratory periods each week.

Prerequisite, Biology 101-102.

Four hours credit.

401. HISTOLOGY. The study of cells and tissues of the human body. Two hours lecture and two two-hour laboratory periods each week.

Prerequisite, Biology 201.

Four hours credit.

402. GENETICS. A study of the principles of inheritance and their application to human biology and to the improvement of plants and animals.

Prerequisite, Biology 101-102.

Three hours credit.

415-416. STUDIES IN BIOLOGY. Conferences, research projects, and written reports on selected topics designed to extend the student's knowledge in chosen fields of Biology. Limited to qualified majors.

Four hours credit each semester.

Business Administration

Assistant Professors BRICKER and HOLLENBACK

Instructors FRUTIGER, KING, RICHMOND, and SCHENLEY

Lecturers LARRABEE and PHILLIPS

Part-Time Instructors BURKET and NEWTON

Majors of 24 hours each are outlined on pages 57 and 59.

101-102. **ELEMENTARY ACCOUNTING.** An introductory course in which no prior knowledge of accounting is assumed. The course introduces the theory of balance sheet; problems of classification and interpretation of accounts; preparation of financial statements; and accounting for single proprietorship, partnership and corporation. Manufacturing accounts are also presented. Two hours lecture and one two-hour laboratory period each week.

Three hours credit each semester.

110. **BUSINESS MATHEMATICS.** Designed primarily for students in the curriculum of Business Administration. Review of elementary algebra, linear and quadratic functions, logarithms, progressions, and annuities.

Three hours credit.

111. **BUSINESS STATISTICS.** An introduction to the elementary theory of statistical analysis with applications. Central tendency, dispersion, skewness, trends, correlations, and index numbers.

Prerequisite, Business 110.

Three hours credit.

112. **BUSINESS COMPUTATIONS.** The fundamentals as well as the more advanced aspects of business calculations. Short methods and checks, percentages, interest, depreciation, and other matters usually treated in commercial and business arithmetic.

Three hours credit.

127-128. **ELEMENTARY SHORTHAND.** Study of the complete theory of Gregg shorthand by the functional method. Dictation and introduction to transcription. Class meets five times each week.

Three hours credit each semester.

129-130. **ELEMENTARY TYPEWRITING.** Complete mastery of the touch system of typewriting with emphasis upon attainment of accuracy and speed. Typing of artistic business letters and of other business forms is stressed. Class meets five times each week.

Three hours credit each semester.

214. **MEDICAL SHORTHAND.** The course is designed to develop a good working knowledge of medical terminology which is used in the physician's office, the hospital, the laboratory, and the insurance office. Class meets two times each week.

One hour credit each semester, with a maximum of three hours credit.

215-216. **INTERMEDIATE ACCOUNTING.** This course carries the fundamentals of accounting presented in Elementary Accounting into the advanced field. It presents an intensive study of accounting statements with a consideration of special analytical accounting procedures and an emphasis upon corporation stock and bond accounts.

Prerequisite, Business 102.

Three hours credit each semester.

219. BUSINESS ENGLISH GRAMMAR. A thorough review of the basic principles of English grammar and punctuation as they relate to clerical data. Rules for spelling and methods of filing will be included.

Three hours credit.

220. BUSINESS CORRESPONDENCE. A course designed to teach methods of composing modern business letters. Actual practice in the writing of all major forms of business communications with special attention given to the preparation of application letters and data sheets.

Prerequisite, Business 219.

Three hours credit.

222. OFFICE PRACTICE. Designed to give the student actual practice in applying the knowledge and skills which are acquired in the theory course to problems which arise in typical office situations. Two hours a week of practical experience secured in the faculty and administrative offices.

Three hours credit.

223. OFFICE MACHINES. Demonstration by the instructor of the proper techniques for operation of various business machines. Students obtain actual practice in the use of these machines in order to develop skill and speed. Class meets five times each week.

Three hours credit.

227-228. INTERMEDIATE SHORTHAND. Review of theory and the development of speed in the writing and transcribing of Gregg shorthand. Special training to acquire technical vocabularies in the fields of advertising, agriculture, banking, insurance, and law. Class meets five times each week.

Prerequisite, Business 127-128.

Three hours credit each semester.

229-230. INTERMEDIATE TYPEWRITING. Development of speed typewriting with a high degree of accuracy. Instruction and practice in typing all business letters and forms, tabulations, manuscripts, legal documents, Mimeograph stencils and Ditto master sheets. Class meets five times each week.

Prerequisite, Business 129-130.

Three hours credit each semester.

234. MEDICAL TRANSCRIPTION. Designed to give the medical secretarial student practice in dictation and transcription of medical letters, reports, and case histories. Class meets two times each week.

One hour credit.

243-244. MEDICAL OFFICE TECHNIQUE. Medical ethics, patient psychology, and personal conduct in a medical office are included. The Pathologist and Bacteriologist of Williamsport Hospital provide demonstrations of procedures, First Aid, sterilization and care of instruments, and the maintenance of adequate office records. Observations are made in the hospital of such procedures in actual operation. Designed for the Medical

Secretarial Students. During the second semester, actual observation work in a doctor's office acquaints the student with procedures.

One and one-half hours credit each semester.

302. BUSINESS LAW. Lecture course on the fundamentals of the law relating to business transactions: contracts, agency, negotiable instruments.

Four hours credit.

303. BUSINESS LAW. Lecture course on the fundamentals of the law relating to partnerships, corporations, sales, personal security contracts, guaranty and suretyship, insurance, and real estate.

Four hours credit.

304. CREDITS AND COLLECTIONS. The fundamentals of credit, investigation and analysis of risks, collection plans and policies. The organization of credit and collection agencies is studied.

Prerequisite, Business 102.

Three hours credit.

305. MARKETING. Retail, wholesale, and manufacturing trade channels; types of middlemen and functions; cooperative associations; marketing functions of policies of retailer, wholesaler and manufacturer; produce exchanges and other markets.

Prerequisite, six hours in Business Administration.

Three hours credit.

307. ORGANIZATION AND FINANCIAL MANAGEMENT OF BUSINESS UNITS. This course deals with the financing of business; the sources of capital and financial agencies such as note brokers, mortgage banks, investment bankers, commercial banks and commercial paper houses. An analysis of business promotions, reorganizations, mergers and consolidations, and the manner in which they are financed.

Prerequisite, six hours in Business Administration.

Three hours credit.

308. INVESTMENTS. This course deals with the leading types of investments, tests, investment programs, financial reports, forecasting methods and agencies, stock exchanges, brokerage houses, methods of buying and selling securities, etc. Laboratory work and case studies.

Prerequisite, Business 102.

Three hours credit.

311-312. COST ACCOUNTING. Methods of accounting for material, labor and factory overhead expenses consumed in manufacturing are introduced. Practice sets are used to illustrate job order and process costing. The recent development of the use of standard costs is introduced and illustrated through problems and a practice set. The application of cost principles to the distributive and administrative functions of a business is also presented.

Prerequisite, Business 102.

Three hours credit each semester.

313. **FEDERAL INCOME TAX LAW AND ACCOUNTING.** An analysis of the Federal income tax law and its application to individuals, partnerships and corporations. Actual cases, problems and forms are used to illustrate the law and to determine the taxpayer's liability to the government.

Prerequisite, Business 102.

Three hours credit.

314. **CURRENT FEDERAL INCOME TAX LAW PRACTICE.** An advanced course in tax law and accounting, based on analysis and treatment of a large variety of problems encountered in current tax practice. Consideration is given to the tax specialist's approach in choice of forms of business, securities and real-estate sales, family partnerships and excess profit.

Prerequisite, Business 102.

Three hours credit.

326. **MONEY AND BANKING.** A study of the nature and functions of money; paper and deposit currency; the nature and functions of our commercial banking system; the organization and structure of the Federal Reserve System; and the importance of money and banking in our economy.

Prerequisite, Economics 201-202.

Three hours credit.

327. **MONEY AND BANKING.** The historical development of the monetary, commercial banking, and central banking systems in the United States; the value of money; monetary and fiscal policy; international monetary relationships; chain and branch banking; and miscellaneous banking institutions.

Prerequisite, Business 326.

Three hours credit.

341-342. **PRINCIPLES OF RETAILING I AND II.** Survey of the field of retailing; history and development of different types of stores; advantages and disadvantages of each type; store location, layout, and organization; duties and functions of the different departments; cooperative movements in retailing; selection, training, and supervision of employees.

Three hours credit each semester.

345. **RETAIL ADVERTISING AND SALES PROMOTION.** Fundamental principles of the science of advertising; advertising media, copy, appeals, layouts, type, illustration, art, psychology; and fundamental principles of sales promotion and coordination of all forms within the organization.

Three hours credit.

346. **RETAIL SALESMANSHIP.** Fundamentals of efficient selling. Problems affecting the customer and the store; meeting customer needs; preparation and presentation of merchandise manual; sales demonstration.

Three hours lecture per week.

Three hours credit.

401. REAL ESTATE. The fundamentals of the real estate business including a study of titles, mortgages, leases, advertising, sale, purchase, development, and management of real estate.

Prerequisite, six hours in Business Administration numbered above 200.

Three hours credit.

402. INSURANCE. The fundamentals of fire, marine, health, accident, casualty, and social insurance. Commercial and governmental plans.

Prerequisite, six hours in Business Administration numbered above 200.

Three hours credit.

403. INSURANCE. Life insurance and annuities. Fidelity and surety bonds.

Prerequisite, six hours in Business Administration numbered above 200.

Three hours credit.

406. BANK POLICIES AND PROCEDURES. This course is designed to afford a more specialized and practical knowledge of banking and related financial institutions. The course will emphasize actual organization and operation of the institution under study. The study will be supplemented by field trips and lectures in the classroom by various operating officers.

Prerequisite, Business 327.

Three hours credit.

414. INDUSTRIAL ORGANIZATION AND MANAGEMENT. A study of the basic principles of scientific management and business operations with which the individual entering a modern business enterprise should be familiar, including the development of a new business, the organization and function of the various departments, and the control of such factors as sales, costs, materials, and labor.

Three hours credit.

423-424. AUDITING. This course deals with the science of verifying, analyzing, and interpreting accounts and reports. An audit project is presented, solved and interpreted throughout the year.

Prerequisite, Business 216.

Three hours credit each semester.

425. C. P. A. PROBLEMS. This course is intended to meet the needs of those interested in professional accounting and in preparation for Certified Public Accountants Examinations. The problems presented throughout the course are taken from past C. P. A. and American Institute of Accountants examinations and require in their solution a thorough knowledge of the subject matter of prerequisite courses taken.

Prerequisite, Business 312.

Three hours credit.

426. **GOVERNMENTAL ACCOUNTING.** Accounting procedures used by municipal, state, and federal governments and others using fund accounting; a study of fund journal entries, ledgers, operating statements.

Prerequisite, Business 216.

Three hours credit.

428. **PERSONNEL MANAGEMENT.** Organization and responsibilities of the personnel department: selection, training, welfare work, methods of payment, incentives for better work, morale, personal problems connected with industry and merchandising.

Three hours credit.

431. **ADVANCED ACCOUNTING.** This course offers an extended treatment of the functions and applications of accounting for those who wish additional accounting background in preparation for entrance into the accounting profession. It treats such special problems as partnerships and joint venture accounting; installment and consignment sales; branch and home office accounting; corporate combinations; and the preparation of consolidated statements.

Prerequisite, Business 216.

Three hours credit.

441. **RETAIL BUYING AND MERCHANDISING.** Problems of merchandising. Responsibilities of the buyer; what, when, where and how to buy; types of merchandise, pricing, leased departments, sales planning and merchandise control; importance of volume, mark-up, mark-down, and turnover; emphasis on making a profit; actual store problems.

Prerequisite, Business 342.

Three hours credit.

445-446. **RETAIL PROBLEMS I AND II.** A survey of current issues confronting retail management and examination of the management, merchandising and publicity activities of retail stores. Current trends and differences in store practices are stressed; emphasis is given to governmental regulations, labor, and employee-employer relations. The case method is used extensively in the development of the course.

Prerequisite, Business 342.

Three hours credit each semester.

Chemistry

Professor CURRIER

Associate Professor BAUER

A major in chemistry consists of 30 semester hours of chemistry.

101-102. **GENERAL CHEMISTRY.** A systematic study of the fundamental laws and theories of chemistry in connection with the most important metallic and non-metallic elements and their compounds. Three hours lecture and two two-hour laboratory periods each week.

Five hours credit each semester.

103. **APPLIED CHEMISTRY.** A brief survey of general chemistry designed to prepare the student for an understanding of some of the many applications of chemistry to the home, to nutrition, and to nursing. Three hours lecture and one two-hour laboratory period each week.

Four hours credit.

201. **QUALITATIVE ANALYSIS.** An elementary course in the modern theories of solutions of electrolytes and their applications to cation and anion analysis. Two hours lecture and two three-hour laboratory periods each week.

Four hours credit.

202-203. **QUANTITATIVE ANALYSIS.** A study of the fundamental methods of elementary gravimetric and volumetric analysis together with practice in laboratory techniques and calculations of these methods. Two hours lecture and two three-hour laboratory periods each week.

Four hours credit each semester.

205. **QUANTITATIVE ANALYSIS.** A one semester course in simple quantitative analysis given more briefly than course 202-203. The course is designed chiefly for laboratory technician students. Two hours lecture and two three-hour laboratory periods each week.

Four hours credit.

301-302. **ORGANIC CHEMISTRY.** A systematic study of the compounds of carbon including both aliphatic and aromatic series. The laboratory work introduces the student to simple fundamental methods of organic synthesis. Three hours lecture and one four-hour laboratory period each week.

Four hours credit each semester.

401-402. **PHYSICAL CHEMISTRY.** A study of the fundamental principles of theoretical chemistry and their applications. The laboratory work includes techniques in physico-chemical measurements. Three hours lecture and one four-hour laboratory period each week.

Prerequisite, one year of calculus.

Four hours credit each semester.

405. **BIOCHEMISTRY.** A general course dealing with the chemical composition and metabolic processes and significance of carbohydrates, lipids, proteins, and biocatalysts in living tissues. Three hours lecture and one four-hour laboratory period each week.

Prerequisites, Chemistry 301-302, Biology 101-102.

Four hours credit.

Drawing

Lecturer BAUER

101. **ENGINEERING DRAWING.** The principles of orthographic projection, axiometric drawing, and perspective through instrumental and free hand exercises. Vertical lettering, free hand sketches, uses of drawing instru-

ments, drafting room practice in conventional representations, practice in pencil and ink tracing, sections, theory of dimensioning, detail and assembly drawings and the reading of working drawings. Class meets two three-hour laboratory periods each week.

Three hours credit.

103. **DESCRIPTIVE GEOMETRY.** Graphical solution of the more advanced space problems, both theoretical and practical and those encountered in engineering practice; practice in inclined free hand lettering. Problems involve the measurement of angles and distances and the generation of various surfaces, together with their sections, developments and intersections. In each project visualization and analysis lead to a logical and efficient solution. Class meets two three-hour laboratory periods each week.

Three hours credit.

Economics

Assistant Professors BRICKER, KYTE, and RABOLD

Twenty-four hours of economics are required for a major in this field.

201-202. **PRINCIPLES OF ECONOMICS.** A study of the organization of the economic system and principles and problems that govern economic activity. Major topics covered include: production, consumption, exchange, distribution, risks of enterprise, banking, international trade, profits, rent, wages, and social reforms.

Three hours credit each semester.

301-302. **ECONOMIC GEOGRAPHY.** A general survey course, showing the relation of physical environment to man's economic and cultural achievements. Emphasis is placed on the part the United States plays in the occupations of man, as contrasted to other producing areas of the world.

Three hours credit each semester.

304. **CONSUMER ECONOMICS.** The place of the consumer in the economics system, forces back of consumer demands, governmental controls to aid the consumer, consumer economic education and private aids.

Prerequisite, six hours in Economics.

Three hours credit.

305. **LABOR PROBLEMS.** A study of the American labor movement and the position of the worker in modern industrial society. Unemployment, wages, hours, child labor, woman in industry, the aged workers, unions, and industrial peace are among the problems considered.

Prerequisite, six hours in Economics.

Three hours credit.

306. **LABOR LEGISLATION.** A continuation of labor problems. Labor and the courts; federal regulation of capital-labor relations; the work of federal labor boards.

Prerequisite, Economics 305.

Three hours credit.

308. INTERMEDIATE ECONOMIC THEORY. Analysis of contemporary value theory. It covers the theory of commodity price and output determination under various market situations; the theory of factor price determination; and consideration of aggregative economics or National Income Accounting.

Prerequisite, Economics 201-202.

Three hours credit.

309. ECONOMIC DEVELOPMENT OF THE UNITED STATES. An analysis of the economic development of the United States from colonial times to the present. An integration of historical analysis and economic theory, stressing economic forces in the 19th and 20th centuries, and their influence upon our present economy.

Prerequisite, Economics 201-202.

Three hours credit.

MONEY AND BANKING. (See Business Administration 326, 327).

402. TRANSPORTATION. Problems and policies of railroads, busses, inland waterways, air and ocean transportation. The economic importance and significance of transportation are emphasized.

Prerequisite, six hours in Economics.

Three hours credit.

403. HISTORY OF ECONOMIC THOUGHT. An advanced course which deals with the origin, growth and significance of economic institutions with emphasis upon those of Europe and the United States.

Prerequisite, six hours in Economics numbered above 200.

Three hours credit.

405. PUBLIC FINANCE. Public revenue and expenditures; preparation of budgets; public taxation; public borrowing.

Prerequisite, six hours in Business Administration numbered above 200 and Economics 201-202.

Three hours credit.

409. THE BUSINESS CYCLE. History and general nature of the business cycle; its causes and its relation to the economic process as a whole; possible remedies, public and private; source materials and current literature.

Prerequisite, Economics 202.

Three hours credit.

412. CURRENT ECONOMIC PROBLEMS. A survey of important economic problems such as money and banking, finance, labor, public utilities, international trade, business cycles, and other types of economic systems in their conflict with Capitalism. Designed to permit the student of economics to apply economic knowledge to the appreciation and solution of contemporary problems.

Prerequisite, Economics 201-202.

Three hours credit.

413. INTERNATIONAL TRADE. A study of the fundamental principles of international trade and foreign exchange. Topics include American and foreign tariff histories, mercantilistic policies, commercial policies,

balance of payments, exchange control and other currency problems, and a survey of the practical problems confronting the international trader, including the development of an international trade vocabulary.

Prerequisite, Economics 201-202.

Three hours credit.

Education

Director SMITH

Assistant Professors HINKEL and SHEAFFER

Dean GRAMLEY

201. INTRODUCTION TO EDUCATION. This basic course introduces the student to the social values of public education, the changing conception of the purposes of education, the problems facing the schools; and to fields of professional activity. Required of all students desiring certification for teaching.

Three hours credit.

202. PUBLIC SCHOOL ORGANIZATION. This course covers the national, state, county and local organizations of education. There is emphasis on the co-curricular personnel with special consideration of the school nurse in the school program.

Three hours credit.

231. ART IN THE ELEMENTARY SCHOOL. A study of techniques and materials based on the development of the child through creative experiences in art. Special attention given to parallel growth in creative and mental development, and methods for different age levels and classroom situations.

Two hours credit. (231S, three hours credit).

232. MUSIC IN THE ELEMENTARY SCHOOL. This course is designed to train the elementary teacher to teach music successfully in grades, whether under a music supervisor or not. Through a variety of significant experiences with appropriate music, this course will develop skills in notation, ear training, the rote song, rhythm, intonation, conducting, and interpretation.

Two hours credit. (232S, three hours credit).

233. HEALTH AND SAFETY EDUCATION. An introduction to the methods of teaching children's games and dances, first aid, preservation of health, prevention of accidents, and the development of good health habits.

Two hours credit. (233S, three hours credit).

234. GEOGRAPHY METHODS AND MATERIALS. Acquainting the student with the social learnings and modifications of behavior that should accrue to elementary school children with subject matter and related material used in the various grade levels. Experience in planning and organizing

integrated teaching units using texts, reference books, films, and other types of teaching materials.

Two hours credit. (234S, three hours credit).

301. PROBLEMS OF SECONDARY EDUCATION. The course deals with the development and problems of secondary education in a democracy. Consideration of the many special problems of high school students is included.

Three hours credit.

EDUCATIONAL SOCIOLOGY. (See Sociology 302).

303. AUDIO-VISUAL EDUCATION. A study of the value, design, construction, and application of the visual and auditory aids to learning. Practical experience in the handling of audio-visual equipment and materials is provided.

Three hours credit.

304. TECHNIQUES AND METHODS OF TEACHING. The course deals with a study of materials and methods of teaching with emphasis on the student's major. Stress is placed on the selection of suitable curricular materials. Students will teach demonstration lessons in the presence of the instructor and the members of the class.

Three hours credit.

306. HISTORY AND PHILOSOPHY OF EDUCATION. A study of the economic, social, political, and religious conditions which have influenced the different educational programs and philosophies, with emphasis being placed on the American educational system.

Three hours credit.

307. EXTRA CURRICULAR ACTIVITIES IN THE JUNIOR AND SENIOR HIGH SCHOOL. Consideration is given to the major types of activities, principles, financial control, credit, and evaluation.

Three hours credit.

308. EDUCATIONAL AND VOCATIONAL GUIDANCE. The importance of guidance and personnel service in secondary and on other educational levels is stressed. An analysis of records, tests, and grades is included.

Three hours credit.

331. ELEMENTARY SCHOOL CURRICULUM. An examination of learning materials and experiences of the elementary school and viewing their influence on the development of children. Special attention given to the make-up, and administration of the program at the primary and intermediate grade levels.

Two hours credit. (331S, three hours credit).

332. ARITHMETIC METHODS AND MATERIALS. A study of objectives, materials, and methods of instruction; the organization of learning experiences, and evaluation of achievement in the elementary school.

Two hours credit. (332S, three hours credit).

333. ENGLISH METHODS AND MATERIALS. This course is designed to consider problems and methods of presenting or/and written English, spelling, penmanship, and choric speaking. Techniques and procedures used in grammar and composition.

Two hours credit. (333S, three hours credit).

334. READING METHODS AND MATERIALS. A course designed to study the development of a reading program from the beginnings (readiness) through principles, problems, techniques, and materials used in the total elementary school.

Three hours credit.

335. SCIENCE METHODS AND MATERIALS. Interpreting children's science experiences, and guiding the development of their scientific concepts. A briefing of the science content of the curriculum, its material and use.

Two hours credit. (335S, three hours credit).

336. SOCIAL STUDIES METHODS AND MATERIALS. A study of the principles underlying the use of Social Studies in the elementary school. Practical applications and demonstrations of desirable methods.

Two hours credit. (336S, three hours credit).

337. CHILDREN'S LITERATURE. A study of children through literature. The role of literature in children's growth and development, methods fostering creativity, and the development of good reading tastes.

Two hours credit. (337S, three hours credit).

EDUCATIONAL PSYCHOLOGY. (See Psychology 309).

Ed. 400. PRACTICE TEACHING. Teaching experience in the public schools of this area on the elementary level under the supervision of a co-operating teacher.

Prerequisite, fifteen hours credit, including Education 201 and Psychology 309 and an average of at least 1.0 in all college work.

Six to twelve hours credit.

401. PRACTICE TEACHING. Teaching experience in a junior or senior high school in the greater Williamsport area; observation of the teaching of veteran teachers; gradual acceptance of the full responsibilities of the teacher.

Prerequisite, nine hours credit, including Education 201 and Psychology 309 and an average of at least 1.0 in all college work.

Six to nine hours credit.

English

Professor SANDIN

Associate Professor GRAHAM

Assistant Professor GRAVES

Instructors CONFER, PECK, and GARDNER

A major in English consists of a minimum of 24 semester hours, excluding 101-102, in courses offered by the department; at least 6 hours must be in American Literature and at least 15 hours in courses numbered 300 and above.

50. REMEDIAL ENGLISH. Elementary course required of freshmen unprepared for English 101. Class meets three times each week. No credit toward a degree.

101-102. COMPOSITION. The two-fold purpose is to teach the student to read good prose of ordinary difficulty, both critically and appreciatively, and to organize his ideas in logical, connected discourse.

Three hours credit each semester.

201. SURVEY OF ENGLISH LITERATURE. A study of the major movements and authors from their beginnings to 1798.

Three hours credit.

202. SURVEY OF ENGLISH LITERATURE. A study of the major movements and authors from 1798 to the contemporary period.

Three hours credit.

203. HISTORY OF AMERICAN LITERATURE. A survey of our literature from the colonial period to 1860.

Three hours credit.

204. HISTORY OF AMERICAN LITERATURE. A survey of our literature from 1860 to the contemporary period.

Three hours credit.

301. ROMANTIC MOVEMENT. A study in the English Romantic poets, Wordsworth to Keats.

Three hours credit.

303. VICTORIAN POETRY. The major poets from Tennyson to Housman.

Three hours credit.

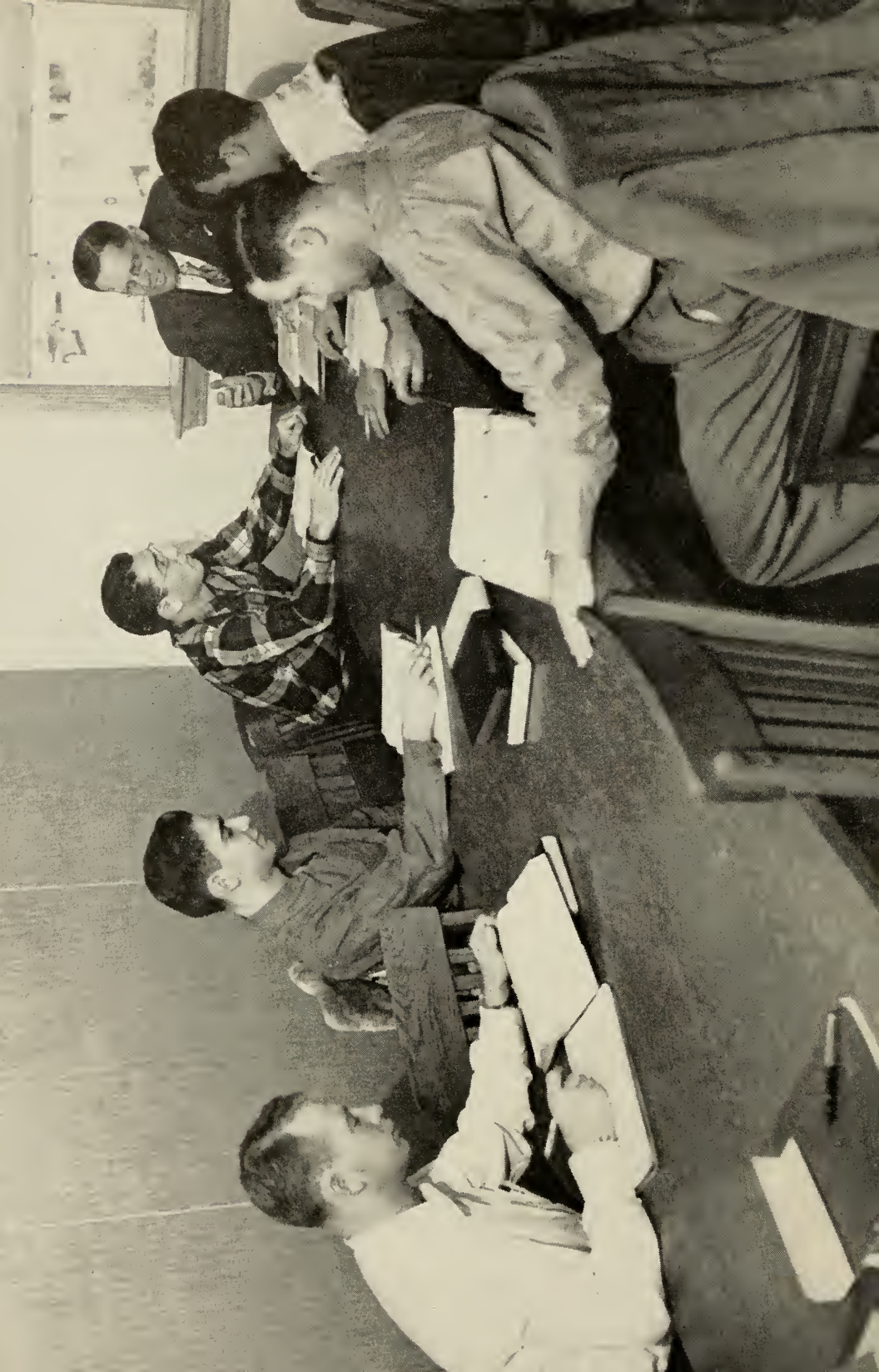
304. VICTORIAN PROSE. Emphasis is placed on the attitudes of the leading essayists toward the many and varied problems of the Victorian Age.

Three hours credit.

305. HISTORY OF THE ENGLISH NOVEL. From Defoe to Jane Austen.

Three hours credit.





306. HISTORY OF THE ENGLISH NOVEL. From Dickens to Galsworthy.

Three hours credit.

311. SHAKESPEARE. A study of representative plays.

Three hours credit.

316. CONTEMPORARY LITERATURE. A study of the major trends in American and English Literature of the recent past.

Three hours credit.

320. ADVANCED COMPOSITION. Consent of the instructor; limited to 15 students.

Three hours credit.

(At least junior standing and 9 hours in English above the freshman year required for 400 courses).

404. AMERICAN REGIONAL FICTION. Study in development of local color and regional literature after the Civil War.

Three hours credit.

415-416. STUDIES IN ENGLISH LITERATURE. Conferences, oral and written reports on selected topics designed to round out a student's knowledge of English Literature. Limited to qualified majors.

Three hours credit each semester.

417-418. STUDIES IN AMERICAN LITERATURE. Conferences, oral and written reports on selected topics designed to round out a student's knowledge of American Literature. Limited to qualified majors.

Three hours credit each semester.

French

Assistant Professor COGSWELL

Instructor MICHOU

A major in French consists of 24 hours.

111-112. BEGINNING. Fundamentals of pronunciation and grammar; practice in reading, conversation, and composition.

Three hours credit each semester.

113-114. ELEMENTARY CONVERSATION. Study of the phonetic symbols for better pronunciation. Conversation based on events of Paris, customs, manners, and politics of France. Class meets four times each week.

Prerequisite, French 111-112 or the equivalent.

Three hours credit each semester.

211-212. INTERMEDIATE. Review of grammar. Study of modern texts; practice in conversation and composition. Reports on outside reading.

Prerequisite, French 111-112 or equivalent.

Three hours credit each semester.

213-214. ADVANCED CONVERSATION AND COMPOSITION. An intensive course designed to develop a high degree of aural comprehension and conversational fluency.

Prerequisite, French 113-114 or the equivalent.

Three hours credit each semester.

311-312. THIRD-YEAR FRENCH. Reading and oral reproduction of nineteenth and twentieth century drama. Outside reading and written reports. One-third of the time is devoted to further study of grammar and of idioms, with special emphasis on writing in French.

Prerequisite, French 211-212 or equivalent.

Three hours credit each semester.

401-402. SURVEY. A study of representative works from the earliest monuments to modern times. Analysis of the texts and their relations to other literatures. Introduction to graduate methods of research and preparation. Required of all majors.

Prerequisites, French 301-302 or equivalent.

Three hours credit each semester.

403-404. ADVANCED GRAMMAR. Thorough study of grammar. Course style: French "from the inside," practice in composition and development of literary writing.

Prerequisite, French 311-312 or equivalent.

Three hours credit each semester.

German

Associate Professor GILLETTE

Assistant Professor KYTE

A major in German consists of 24 hours.

111-112. BEGINNING. Fundamentals of pronunciation and grammar; practice in reading, conversation, and composition.

Three hours credit each semester.

211-212. INTERMEDIATE. Review of grammar. Study of modern texts; practice in conversation and composition. Reports on outside reading.

Prerequisite, German 111-112 or equivalent.

Three hours credit each semester.

301-302. **ADVANCED GRAMMAR.** Thorough review of German grammar, stressing word order, declension, passive voice, subjunctive mood, and idioms of high frequency.

Three hours credit each semester.

311-312. **ADVANCED.** Reading of classical and modern texts; outside readings and reports. Study of principal literary movements and civilization.

Prerequisite, German 211-212 or equivalent.

Three hours credit each semester.

331-332. **DIE NOVELLE.** Readings and discussions of representative short stories, with emphasis on the more modern authors; study of relations with other literatures.

Prerequisite, German 311-312 or equivalent.

Three hours credit each semester.

401-402. **SURVEY.** A study of representative works from the earliest monuments to modern times. Analysis of the texts and their relations to other literatures. Introduction to graduate methods of research and preparation. Required of all majors.

Prerequisite, German 301-302 or equivalent.

Three hours credit each semester.

Greek

Assistant Professor RAMSEY

205-206. **NEW TESTAMENT GREEK GRAMMAR.** Fundamentals of New Testament Greek grammar.

Not scheduled in Freshman year, except by special permission.

Three hours credit each semester.

317. **SELECTED READINGS FROM THE NEW TESTAMENT.** The reading of passages chosen from the Greek Testament for their literary merit and significance for the Christian faith.

Prerequisite, Greek 206.

Three hours credit.

318. **THE GOSPEL ACCORDING TO ST. MARK.** A critical reading of the Greek text with reference to the problems of higher and lower Biblical criticism.

Prerequisite, Greek 206.

Three hours credit.

418. **THE EPISTLE TO THE ROMANS.** A critical study of the Greek text with special attention being given to the theology of St. Paul.

Prerequisite, Greek 206.

Three hours credit.

History

Professor PRIEST

Associate Professors EWING and WEIDMAN

Assistant Professors BARNES and JACKSON

A major in history consists of 30 semester hours.

111. THE HISTORY OF WESTERN CIVILIZATION TO 1715. A survey of the experience of mankind within the framework of the ancient civilizations of the Near East and the succeeding civilizations of Europe and the western world.

Three hours credit.

112. THE HISTORY OF WESTERN CIVILIZATION SINCE 1715. A continuation of History 111 with emphasis on the development of institutions and viewpoints characteristic of the modern era.

Three hours credit.

201. UNITED STATES AND PENNSYLVANIA HISTORY TO 1865. A course in the political, economic, and social factors in the history of the United States and the Commonwealth. (Satisfies state requirements for a teaching certificate.)

Three hours credit.

202. UNITED STATES AND PENNSYLVANIA HISTORY SINCE 1865. A continuation of History 201, with special attention to international relations, the problems of labor, education, corporate control, and postwar activities. (Satisfies state requirements for a teaching certificate.)

Three hours credit.

301. THE COLONIAL PERIOD AND THE AMERICAN REVOLUTION (1492-1789). A concentrated course on the discovery of the continent, and the events leading up to the Revolution and the adoption of the Constitution.

Three hours credit.

302. AMERICAN FOREIGN RELATIONS. A study of the most significant diplomatic problems arising out of wars, westward expansion, and colonial possessions, with special attention to the evolution of the United States as a world power.

Three hours credit.

304. THE RENAISSANCE AND REFORMATION. A study of the intellectual, artistic, and commercial developments from the fourteenth to the seventeenth century, together with the origin of the Protestant tradition and related political factors.

Three hours credit.

308. CIVIL WAR AND RECONSTRUCTION. Emphasis is placed on the events leading up to the war; the various campaigns of the war and the return to peacetime activity are considered.

Three hours credit.

317. THE FRENCH REVOLUTION AND THE NAPOLEONIC ERA. An analysis of the political, social, and intellectual backgrounds of the French Revolution, a survey of the course of revolutionary development, and an estimate of the results of the Napoleonic conquests and administration.

Three hours credit.

320. PENNSYLVANIA HISTORY. A history of Pennsylvania from its founding to the present day. All phases of life in the colony and commonwealth are treated.

Three hours credit.

321. AMERICAN SOCIAL AND INTELLECTUAL HISTORY TO 1860. The rise and development to 1860 of American ideas, ideals, and social standards.

Three hours credit.

322. AMERICAN SOCIAL AND INTELLECTUAL HISTORY SINCE 1860. The changes produced in American ideas, ideals, and social standards by the Civil War and the course of their development since that time.

Three hours credit.

325. ENGLISH HISTORY TO 1603. The political, social, and cultural history of England, with particular emphasis on the growth of the constitution and legal institutions, from the Roman period to the death of Elizabeth I.

Three hours credit.

326. ENGLISH HISTORY SINCE 1603. Political and social changes, constitutional and imperial developments, and economic and cultural factors from the accession of James I to the present.

Three hours credit.

327. ANCIENT CIVILIZATION. The origin and character of the civilizations of antiquity, with special emphasis upon those elements of Greek and Roman culture which have been incorporated in the structure of western civilization.

Three hours credit.

328. HISTORY OF MEDIEVAL EUROPE. The development of European political, social, and religious institutions and cultural patterns from the collapse of the Roman Empire to 1500.

Three hours credit.

401-402. CONTEMPORARY EUROPE. A study of diplomatic, social and economic development since 1914, with special reference to the rise of fascist states, international rivalries, the Soviet and Nazi revolutions, and world peace organizations.

Three hours credit each semester.

403. RECENT HISTORY OF THE UNITED STATES (1896-PRESENT). The development of the United States in the twentieth century.

The problems and reforms of Theodore Roosevelt; Wilsonian doctrines; the First World War; the New Deal, its objectives, principles, and practices; the Second World War and its problems to the present.

Three hours credit.

405-406. CONSTITUTIONAL HISTORY OF THE UNITED STATES. This course presents an analysis of American political philosophy, constitutional origins, and Supreme Court decisions in their influence upon economic and social problems.

Three hours credit each semester.

INTERNATIONAL RELATIONS. (See Political Science 405-406.)

415-416. STUDIES IN HISTORY. Conferences, and oral and written reports on selected topics designed to round out a student's knowledge of history. Limited to qualified majors.

Three hours credit each semester.

Mathematics

Associate Professor VAN BAELEN

Assistant Professor KNIGHTS

Instructor FRUTIGER

For a major in mathematics, 24 semester hours are required excluding 100.

100. INTERMEDIATE ALGEBRA. For students presenting only one year of high school algebra and desiring further work in science or engineering. No college credit toward a major.

Three hours credit.

101. COLLEGE ALGEBRA. After a rapid review of quadratic equations, this course deals with the binomial theorem, permutations and combinations, probability, series, determinants, and theory of equations.

Prerequisite, Mathematics 100 or two years of high school algebra.

Three hours credit.

102. TRIGONOMETRY. An introductory course in plane trigonometry dealing with the use of logarithms in the solution of plane triangles, together with the trigonometric functions of an angle and the fundamental identities connecting its functions.

Three hours credit.

201. ANALYTIC GEOMETRY. A study of the graphs of various equations; curves resulting from simple locus conditions with stress on the loci of the second degree; polar co-ordinates, and co-ordinates of space.

Prerequisite, Mathematics 102.

Four hours credit.

202. DIFFERENTIAL CALCULUS. Usual course including the elements of differentiation and their applications, maxima and minima, curve tracing, rates, curvature, and differentials.

Prerequisite, Mathematics 201.

Four hours credit.

301. INTEGRAL CALCULUS. Integration as the reverse of differentiation. Integration as a process of summation. Formal and numerical integration. Practical applications; areas, volumes, pressure, work, lengths of arcs.

Prerequisite, Mathematics 202.

Four hours credit.

302. DIFFERENTIAL EQUATIONS. A first course in ordinary differential equations. Includes differential equations of first order with applications to physics, mechanics, and chemistry; linear equations with constant coefficients, simultaneous equations, and some special higher order equations.

Prerequisite, Mathematics 301.

Three hours credit.

303. HISTORY OF MATHEMATICS. A survey of the historical development of arithmetic, algebra, trigonometry, and the beginnings of analytic geometry and calculus.

Prerequisite, Mathematics 301.

Three hours credit.

401. ADVANCED CALCULUS. Includes a short course in solid analytic geometry, partial differentiation, power series, Maclaurin and Taylor series, multiple integrals.

Prerequisite, Mathematics 301.

Three hours credit.

402-403. HIGHER ALGEBRA. First semester includes the elementary theory of equations. Second semester includes the study of the binomial theorem for any index, the summation of series, mathematical induction, elements of the theory of numbers, indeterminate equations, and probability.

Prerequisite, Mathematics 101.

Three hours credit each semester.

405. ELEMENTARY THEORY OF EQUATIONS. Complex number, binomial equations, polynomials and solution of polynomial equations. Determinants and introduction to matrices. Linear equations. Elimination.

Three hours credit.

415-416. STUDIES IN MATHEMATICS. Conferences, oral and written reports on selected topics designed to round out a student's knowledge of mathematics. Limited to qualified majors.

Three hours credit.

Music

Associate Professor McIVER

Assistant Professors RUSSELL and SHEAFFER

Instructors LANDON and MAXSON

The music major consists of 30 hours adequately distributed in Principles, History and Literature, and Applied Music.

A. PRINCIPLES

121-122. THEORY. An integrated course in the fundamentals of music and musicianship including written harmony, sight singing, ear training, and keyboard harmony. Class meets 5 times each week.

Four hours credit each semester.

221-222. THEORY. A continuation of the integrated course in music and musicianship. Class meets 5 times each week.

Prerequisite, Music 121-122.

Four hours credit each semester.

321. ADVANCED HARMONY. Altered chords and a thorough review of seventh, ninth, and eleventh chords, with analysis of material used in modern music. Continued work at the keyboard.

Prerequisite, Music 221-222.

Three hours credit.

322. COUNTERPOINT. A study of the five species in two, three, and four part writing.

Prerequisite, Music 221-222.

Three hours credit.

401. ORCHESTRATION. A study of modern orchestral instruments, an examination of their use by the great masters with practical problems of instrumentation.

Prerequisite, Music 221-222.

Three hours credit.

402. COMPOSITION. Creative writing in smaller vocal and instrumental forms. The college musical organizations serve to make performances possible.

Prerequisite, Music 322.

Three hours credit.

403. FORM AND ANALYSIS. A study of harmonic and contrapuntal forms, with analysis of representative works of music literature.

Prerequisite, Music 222.

Three hours credit.

B. HISTORY AND LITERATURE

130. MUSIC APPRECIATION. A general study of concert repertory designed to stimulate enjoyment and taste through the development of good listening techniques.

Three hours credit.

225. ROMANTIC MUSIC. Music of the 19th century with emphasis on subjectivity, nationalism, and virtuosity for program music.

Prerequisite, Music 130.

Three hours credit.

227. CLASSIC AND BAROQUE MUSIC. A study of the development and growth of music and musical forms during the 17th and 18th centuries. The emergence of opera, oratorio, the sonata, the symphony, the concerto and the modern orchestra.

Prerequisite, Music 307-308.

Three hours credit.

229. MUSIC OF THE 20TH CENTURY. A study of music written in the 20th century with an examination of musical trends since 1900.

Prerequisite, Music 311.

Three hours credit.

307-308. HISTORY OF MUSIC. A survey of the history of music from antiquity to 1750. (First Semester). A survey of the history of music from 1750 to the twentieth century. (Second Semester).

Three hours credit each semester.

309. HYMNOLOGY. A study of the hymnody of the Christian Church. Emphasis is directed toward an appreciation of the Church's finest hymns.

Three hours credit.

317. THE GOLDEN AGE OF POLYPHONY. A survey of the musical literature of the 15th and 16th centuries with time given to the singing of great polyphonic compositions.

Prerequisite, Music 307-308.

Three hours credit.

415. SENIOR STUDIES. Herein opportunity is afforded to the senior majoring in music to develop a project in research. Such work is undertaken in consultation with a faculty advisor. Emphasis is directed toward the development of creative thinking.

Three hours credit.

C. APPLIED MUSIC

131-132. PIANO CLASS. A beginning class in piano designed primarily for the voice and instrumental majors. No more than 8 students to a class. Two classes each week.

One hour credit each semester.

135-136. PRIVATE PIANO INSTRUCTION. Training in the fundamentals of technique. Progressive studies are used to make possible a study of the world's finest piano literature. Participation in recitals is part of the course. Senior recital.

One half or one hour credit each semester.

141-142. VOICE CLASS. Group instruction for beginning voice students. Emphasis on personal requirements with opportunity for individual performance. Two classes each week.

One hour credit each semester.

145-146. PRIVATE VOICE INSTRUCTION. Training in the fundamentals of good singing with a study of various styles of song literature. Performance in recitals is required once each semester, with fourth year voice students presenting a major recital before graduation.

One half or one hour credit each semester.

151-152. BAND INSTRUMENTS CLASS. Group instruction at the beginning level in band instruments. Two classes each week.

One hour credit each semester.

155-156. PRIVATE INSTRUCTION IN BAND INSTRUMENTS. Training in the fundamentals of performance on one or more instruments of the band. Progressive studies offer the opportunity for the student to advance to the level of recital performance. Senior recital required.

One half or one hour credit each semester.

165-166. PRIVATE INSTRUCTION IN STRINGS. Training in the fundamentals of performance on one or more of the string instruments. Progressive studies make possible advancement to the level of recital performance. Senior recital required.

One half or one hour credit each semester.

175-176. PRIVATE INSTRUCTION IN ORGAN. Satisfactory background in piano is required to study organ. Additional work in piano may be required at the discretion of the department head. The organ student is given the opportunity to work with progressive studies in both church and concert repertory. Senior recital.

One half or one hour credit each semester.

325-326. CHORAL AND/OR INSTRUMENTAL CONDUCTING. A study of the fundamentals of conducting with frequent opportunity for practical experience.

Three hours credit each semester.

334. PIANO ENSEMBLE. A course designed to explore piano literature for four and eight hands. Required of piano majors. Open to any qualified student. Two classes each week.

One hour credit, with a maximum of two hours credit.

344. VOCAL METHOD CLASS. A study of anatomy relative to vocalization; diction is studied through phonetic spelling. Practical application is made by singing individually and as a class. Required of voice majors. Open to any qualified student. Two classes each week.

One hour credit.

354. INSTRUMENTAL METHOD CLASS. A course designed to study instrumental method. Required of instrumental majors. Open to any qualified student. Two classes each week.

One hour credit.

Philosophy

Assistant Professors FAUS and GRAVES

Dean MILLER

A major in philosophy consists of 24 semester hours.

207. INTRODUCTION TO PHILOSOPHY. This basic course introduces the student to the philosophical spirit as distinguished from the scientific; the criteria of truth based upon the synoptic method as a coherent organic whole; comparison of ideas to reality with major consideration of universals and values.

Three hours credit.

210. PHILOSOPHY OF RELIGION. A study of the philosophical foundations of religion, with special emphasis on the intellectual bases for the belief in God, the problem of good-and-evil, human personality, religious experience, and human immortality.

Three hours credit.

212. CRITICAL THINKING. This course consists of applications of analytical techniques to the solution of everyday problems. Account is taken of contemporary theories of communication, such as semantics, linguistics, and logic.

Three hours credit.

303. ETHICS. The central purpose of this course is to give constructive guidance in areas of vital concern to modern youth in college life. The modern problems of personal conduct and social ethics are considered in the light of the principles of moral obligations.

Prerequisite, Philosophy 207.

Three hours credit.

305. LOGIC. An introduction to the principles of reasoning based upon the methods of inductive and deductive logic with a major consideration of the laws of thought, the syllogism, fallacies, methods of science, and criteria of truth.

Prerequisite, Philosophy 207.

Three hours credit.

307. AESTHETICS. This course consists of the study of form, harmony and beauty and their relations to the integrated experiences of the individual person.

Three hours credit.

310. METAPHYSICS. The study of the chief philosophical world views with the aim to develop a perspective for the interpretation of experience.

Prerequisite, Philosophy 207.

Three hours credit.

401. HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY. A study of the ancient and medieval philosophers and their major contributions.

Prerequisite, Philosophy 207.

Three hours credit.

402. HISTORY OF MODERN PHILOSOPHY. A study of modern philosophy beginning with Francis Bacon and the development of empiricism, rationalism, idealism, positivism, pragmatism, and personalism.

Prerequisite, Philosophy 207.

Three hours credit.

413-414. STUDIES IN PHILOSOPHY. These studies will involve an intensive research study of the writings of one or two outstanding philosophers. Limited to majors.

Three hours credit each semester.

Physical Education

Director BUSEY

Assistant Professor LAWTHER

Instructor VARGO

101-102. PHYSICAL EDUCATION (Men). Basic instruction in fundamentals of sports that include touch-football, soccer, volleyball, table tennis, bowling, badminton, wrestling, swimming, gymnastics and tumbling, softball, tennis, golf and archery.

A regulation four piece uniform consisting of a Lycoming College T-shirt, royal blue shorts, and a royal blue sweat suit, along with a basketball type rubber solid shoe is required for all class work in physical education. This uniform may be secured at the college bookstore.

One hour credit.

201-202. PHYSICAL EDUCATION (Men). More advanced work in the various activities with added emphasis on those sports that have the greatest potential as recreational and leisure time interests in after college life.

Uniform requirement is the same as for Phys. Ed. 101-102.

One hour credit.

111-112. PHYSICAL EDUCATION (Women). Basic instruction in fundamentals of swimming, tennis, badminton, bowling, table tennis, archery, volleyball, basketball, softball, field hockey, soccer, stunts and tumbling, rhythmic, informal gymnastics, folk, modern and character dancing.

A regulation two piece uniform consisting of a white blouse and blue shorts, along with a tennis type rubber solid shoe is required for all class work in physical education. This uniform may be secured at the college bookstore.

One hour credit.

211-212. PHYSICAL EDUCATION (Women). More advanced work in activities offered freshmen. A reasonable degree of proficiency in a sport of her choice shall be required.

One hour credit.

Physics

Associate Professor BABCOCK

Assistant Professor REMLEY

101-102. GENERAL PHYSICS. A course in the first semester covering mechanics, heat, and sound; and in the second semester, magnetism, electricity, and light. Lectures and recitations based on a standard text accompanied by a systematic course in quantitative laboratory practice. Three hours lecture and two two-hour laboratory periods each week.

Prerequisite, Mathematics 101-102 or equivalent.

Five hours credit each semester.

201. STATICS. The division of mechanics which includes the fundamental conception of a force, the resolution of a force into components, and the composition of forces into a resultant. Both the analytical and the graphic solutions are used.

Prerequisite, Mathematics 101-102; Physics 101.

Three hours credit.

202. STRENGTH OF MATERIALS. The application of analytical and vector methods to mechanical systems, including moment and shear diagrams.

Prerequisite, Physics 201.

Three hours credit.

301. DYNAMICS. A division of mechanics including forces which act on a body to cause a change in its motion.

Prerequisite, Physics 201.

Three hours credit.

302. METEOROLOGY. A study of basic principles pertaining to the observation and recording of weather data, and the basing of future weather predictions on them.

Three hours credit.

303. LIGHT. A study of the theories of physical optics and an introduction to modern spectroscopy.

Prerequisite, Physics 101-102. Conference on mathematical background required.

Three hours credit.

Political Science

Associate Professor WEIDMAN

Assistant Professor BARNES

A major in political science consists of a minimum of 24 semester hours.

201. AMERICAN GOVERNMENT. An inquiry into the structure and functions of the various organs of national government, with special reference to their expansion to meet the problems of a modern society.

Three hours credit.

202. STATE AND LOCAL GOVERNMENT. A comparative study of the organization and functions of the states and their subdivisions, their relationship to the federal government, and the newer concept of the work of state administration.

Three hours credit.

301. PRINCIPLES OF POLITICAL SCIENCE. A study to acquaint the student with the functions of the modern state, the development of political thought, individual liberty under the law, and the nature of political parties.

Prerequisite, Political Science 201.

Three hours credit.

302. POLITICAL PARTIES AND PRESSURE POLITICS. A study of political parties in the United States with emphasis upon factors of control, campaign techniques, propaganda, and their relationship to pressure groups.

Prerequisite, Political Science 201.

Three hours credit.

AMERICAN FOREIGN RELATIONS. (See History 302.)

303. COMPARATIVE GOVERNMENT. An analysis of several governments of the world, affording a comparison between democratic and authoritarian states, with particular attention directed to changes resulting from World War II.

Prerequisite, Political Science 201.

Three hours credit.

304. MUNICIPAL GOVERNMENT. An analysis of different forms of city government in the United States, the relation of the city to the states, city politics and elections, and the problems of municipal administration.

Prerequisite, Political Science 201.

Three hours credit.

405. INTERNATIONAL RELATIONS. The setting for the struggle for power and peace in our time; evolution of the national state system; the arts of diplomacy; imperialistic rivalries; the quest for a world wide rule of law.

Prerequisite, Political Science 201.

Three hours credit.

406. INTERNATIONAL RELATIONS. The postwar crisis in world politics: the new role of the great powers of yesterday; the two-bloc system and the ideological conflict; the problem of peace in the middle 20th century.

Prerequisite, Political Science 201.

Three hours credit.

CONSTITUTIONAL HISTORY OF THE UNITED STATES. (See History 405-406.)

409. INTERNATIONAL LAW. A study by the case method of the nature and scope of the rules governing the conduct of states with one another during peace, war and neutrality.

Prerequisite, Political Science 201.

Three hours credit.

415-416. STUDIES IN POLITICAL SCIENCE. Conferences, and oral and written reports on selected topics designed to round out a student's knowledge of the Political Sciences. Limited to qualified majors.

Three hours credit each semester.

Psychology

Professor SKEATH

Instructors CANON and SMITH

A major in psychology consists of 24 hours of the courses below. For students planning to major in psychology it is recommended that Biology 101-102 be taken in the freshman year. Students planning graduate work will do well to include mathematics and physics as part of their liberal arts program.

201. GENERAL PSYCHOLOGY. A brief study of the nervous system, sensory processes, and the physiological drives in behavior. Textbook, lectures, readings, and experiments.

Three hours credit.

204. **SOCIAL PSYCHOLOGY.** The behavior of the individual with reference to the group. Social factors in personality, such as imitation, suggestion, attitudes, ideals, etc. Reciprocal effect of group behavior on the individual.

Prerequisite, Psychology 201.

Three hours credit.

205. **HUMAN RELATIONS.** A study of the social and psychological interaction of people with emphasis upon the conditions for, and diagnosis of, harmonious relations. Basic study materials are cases drawn from everyday experiences, supplemented by selected readings from a wide variety of sources. Class discussions, reports, few lectures.

Three hours credit.

301. **INDUSTRIAL PSYCHOLOGY.** The application of the principles to vocational guidance, problems of personality, problems of employment, advertising, the professions, and physical efficiency.

Prerequisite, Psychology 201.

Three hours credit.

302. **ABNORMAL PSYCHOLOGY.** A general survey of the principal forms of mental abnormalities with emphasis upon symptoms, causes, and treatment.

Prerequisite, Psychology 201.

Three hours credit.

303. **MENTAL HYGIENE.** Technique for diagnosing personality, study of personality.

Prerequisite, Psychology 201.

Three hours credit.

308. **CHILD PSYCHOLOGY.** Aims to study behavior from birth to maturation; principles in harmony with normal, wholesome development of childhood; consideration of intellectual, emotional, social, physical, and vocational adjustments of youth.

Prerequisite, Psychology 201.

Three hours credit.

309. **EDUCATIONAL PSYCHOLOGY.** A survey of the general psychological principles as applied to learning and the development of personality.

Prerequisite, Psychology 201.

Three hours credit.

401. **TESTS AND MEASUREMENTS.** Practical survey course of the field of tests, and measurements; deals with development of tests, principles involved in construction, administration, uses, and misuses of tests in school, industry, and court.

Prerequisite, Psychology 201 and 411.

Three hours credit.





402. **SYSTEMATIC PSYCHOLOGY.** A study of the various theories of Psychology, with regard to their agreements and conflicts.

Prerequisite, Psychology 201.

Three hours credit.

405. **EXPERIMENTAL PSYCHOLOGY.** Lecture and laboratory course designed to familiarize students with methods and results of modern psychological research.

Prerequisite, Psychology 201.

Three hours credit.

411. **STATISTICS.** Numerical trends, curve, index, correlations, interpretation of charts and graphs.

Three hours credit.

415-416. **STUDIES IN PSYCHOLOGY.** Introduction to experimental method, readings, reports and conferences designed to give the student a comprehensive knowledge of the field of psychology. Limited to qualified majors.

Three hours credit each semester.

Religion

Assistant Professors RAMSEY and TREESE

111. **THE HEBREW-CHRISTIAN TRADITION.** A survey of the fundamental cultural and religious themes of the Hebrew-Christian heritage with reference to their historical development. Substantial reading assigned in the Bible.

Three hours credit.

206. **THE LITERATURE OF THE OLD TESTAMENT.** A study of the major works of the Old Testament with special reference to their origins, contents, and historical significance.

Three hours credit.

208. **THE LITERATURE OF THE NEW TESTAMENT.** A study of the major writings of the New Testament with reference to their authorship, date, and significance for the understanding of primitive and contemporary Christianity.

Three hours credit.

305. **THE PROPHETS.** A consideration of the prophetic movement in Israel beginning with the pre-literary prophets and including the works of Amos, Hosea, Isaiah, Jeremiah, and the prophets of the Restoration.

Three hours credit.

307. **THE LIFE AND TEACHINGS OF JESUS.** An approach to the life and teachings of Jesus through the critical study of the sources and the reconstruction of the historical, social, and religious setting of his ministry.

Prerequisite, Religion 206 or 305.

Three hours credit.

411. THE RELIGIONS OF THE WORLD. A survey of the religious beliefs and practices of mankind through the historical study of the major living religions; an attempt to illuminate the origins, the nature, and the development of religion.

Three hours credit.

414. PROTESTANT CHRISTIANITY. An historical and theological study of the origin and development of the Protestant movement, 1500-1950, with particular emphasis on American Protestantism.

Prerequisite, Religion 208 or 307.

Three hours credit.

Science Survey

Assistant Professors REMLEY and YOON

Science 101-102 satisfies the science credit for graduation in the Business Administration curriculum.

101. SCIENCE. Survey course in the principles of the Physical Sciences.

Three hours credit.

102. SCIENCE. Survey course in the principles of the Biological Sciences.

Three hours credit.

Sociology

Assistant Professor SONDER

A major in sociology consists of a minimum of 24 hours of the following courses:

105. INTRODUCTION TO SOCIOLOGY. An introduction to the systematic study of human inter-relationships and the products of these relationships.

Three hours credit.

202. MARRIAGE AND THE FAMILY. The history, structure, and functions of modern American family life, emphasizing dating, courtship, factors in marital adjustment, and the changing status of family members.

Prerequisite, Sociology 105 or junior standing.

Three hours credit.

205. CONTEMPORARY SOCIAL PROBLEMS. A study of the causal theories, manifestations, and possible solutions for the social phenomena which are currently accepted as problems.

Prerequisite, Sociology 105.

Three hours credit.

214. GENERAL ANTHROPOLOGY. A survey of the physical and cultural evolution of man and society, placing emphasis upon the comparative descriptions of recent primitive societies.

Three hours credit.

302. EDUCATIONAL SOCIOLOGY. The aims, purposes, and operation of education are interpreted from the sociological viewpoint with emphasis upon the home and community as they affect the educative process, as well as upon the special role of the teacher in school and society.

Prerequisite, Sociology 105.

Three hours credit.

305. CRIMINOLOGY. The nature, genesis, and organization of criminal behavior is examined from both group and individual viewpoints. Juvenile delinquency and the treatment of crime are presented.

Prerequisite, Sociology 105.

Three hours credit.

308. RURAL AND URBAN COMMUNITIES. The concept of community is treated as it operates and affects individual and group behavior in rural, suburban, and urban settings. Emphasis is placed upon characteristic institutions and problems of modern city life.

Prerequisite, Sociology 105.

Three hours credit.

309. RACIAL AND CULTURAL MINORITIES. A study of the adjustments of minority racial, cultural, and national groups in modern America. Attention is also given to minority problems within their world setting.

Prerequisite, Sociology 105.

Three hours credit.

408. THE DYNAMICS OF PUBLIC OPINION. A theoretical and research-based study of the foundation, formation, and operation of public opinion in American society. Emphasis is placed upon polling and propaganda techniques, and analysis is made of the major media of public opinion.

Prerequisite, Sociology 105 and junior standing.

Three hours credit.

409. SOCIOLOGY APPLIED TO BUSINESS AND THE PROFESSIONS. The principles of Sociology are treated to reflect their usefulness in business, industry, and such professions as the ministry, social work, and counseling.

Prerequisite, Sociology 105 and one other Sociology course or permission of instructor.

Three hours credit.

410. STUDIES IN THE HISTORY OF SOCIOLOGICAL THOUGHT. The history of the development of sociological thought from its earliest philosophical beginnings is treated through discussions and reports. Emphasis is placed upon sociological thought since the time of Comte.

Limited to qualified majors, others with permission of instructor.

Three hours credit.

STATISTICS. (See Psychology 411).

424. STUDIES IN SOCIOLOGICAL RESEARCH. The methods of sociological research are treated, and students acquire practical experience in the application of these methods.

Limited to qualified majors, others with permission of instructor.

Three hours credit.

Spanish

Associate Professor GILLETTE

Assistant Professor COGSWELL

Instructor PECK

A major in Spanish consists of 24 hours.

111-112. BEGINNING. Fundamentals of pronunciation and grammar; practice in reading, conversation, and composition.

Three hours credit each semester.

211-212. INTERMEDIATE. Review of grammar. Study of modern texts; outside reading and reports; practice in conversation and composition.

Prerequisite, Spanish 111-112 or equivalent.

Three hours credit each semester.

301-302. ADVANCED GRAMMAR. Spanish style illustrated by reading representative modern authors. Difficult points of grammar and usage studied. Drill on idioms and verb forms of high frequency.

Prerequisite, Spanish 211-212, 311-312 or equivalent.

Three hours credit each semester.

303-304. CONVERSATION. Study of customs, manners, and conditions in Latin America. Representative works are read and discussed in Spanish. Class meets four times each week.

Three hours credit each semester.

311-312. ADVANCED. Reading of Golden Age and modern texts; outside readings and reports. Study of principal literary movements and civilization.

Prerequisite, Spanish 211-212 or equivalent.

Three hours credit each semester.

401-402. SURVEY. A study of representative works from the earliest monuments to modern times. Analysis of the texts and their relations to other literatures. Required of all majors.

Prerequisite, Spanish 301-302 or equivalent.

Three hours credit each semester.

Speech

Assistant Professor GRAVES

105. FUNDAMENTALS OF SPEECH. Development of the elementary principles of simple oral communication through lectures, prepared assignments in speaking, and informal class exercises.

Three hours credit.

106. VOICE AND PHONETICS. Study of the physical, physiological, and psychological aspects of speech. Considerable attention will be devoted to improvement of the individual student's speech through intensive study of the International Phonetic Alphabet, voice production, and through practice exercises.

Three hours credit.

205. DISCUSSION AND DEBATE. The theory and practice of group problem-solving and rhetorical techniques. In addition to dealing with the traditional materials of discussion and debate, the student will become acquainted with more recent theories of group structure and function and will be expected to relate them to his own experience.

Three hours credit.

212. INTRODUCTION TO THEATRE. A survey of the artistic and technical functioning of theatre including playwriting, acting, directing, and design. The course is oriented to the needs of the layman who wishes to develop an informed understanding of dramatic arts.

Three hours credit.

311. INTRODUCTION TO DRAMA. A survey of world dramatic literature from Greeks to the present.

Three hours credit.

314. THE HISTORY AND CRITICISM OF MOTION PICTURES. A study of the aesthetic, technical, and social development of motion pictures. A fundamental critical technique will be developed through lectures, assignments, and the study of representative films. This technique will not only be applicable to motion pictures, but to the arts in general.

Three hours credit.

Expenses and Scholarships

Expenses

General Expenses

In considering the expenses of college, it is well to bear in mind that no student actually pays the full cost of his education. State colleges are enabled to keep the cost of tuition within reasonable limits by grants from the public treasury; independent colleges achieve this by voluntary contributions supplemented by income from their invested endowment funds. At Lycoming College, the tuition fee which each student pays represents only a portion of the total instruction cost. Tuition is kept at the lowest possible minimum consistent with adequate facilities and competent instruction.

Tuition at Lycoming is \$250.00 per semester, plus certain fees which are listed on the following pages. For students taking meals at the College, Rooms in Rich Hall, Rich Hall Annex, the Men's new Dormitory, and the Fraternity Houses are \$100.00 per semester. In Old Main—\$75.00 per semester. (The academic year comprises two semesters of approximately sixteen weeks each.) If for any justifiable reason it is impossible for a student to eat in the College Dining Hall, permission may be given the student to make other arrangements for meals. However, in the event such permission is granted, the room cost will be 50% higher than the above rates. If a student requests the use of a double room as a single room and the room is available, he will be charged 50% more than regular rates.

Regularly enrolled students carrying a normal schedule of from 13 to 16 hours of class or laboratory pay the full tuition charge. Those students taking fewer than 13 hours of work per semester, or fewer than 6 hours of work per semester in the summer session, are charged \$17.50 per credit hour. Additional credits beyond the normal schedule of 16 hours are charged at the rate of \$17.50 for each semester hour credit. Additional detailed information will be furnished by the Treasurer's office upon request.

Application Fee and Deposit

All students applying for admission are required to send an application fee of \$10.00 with the application. This charge is to

defray the costs of processing the application, and of keeping academic records.

After a resident student is notified that he has been accepted for admission by the college, he is required to make a deposit of \$50.00. This deposit is evidence of the applicant's good intention to matriculate, and serves as a room reservation fee.

Non-resident students are required to make a deposit of \$25.00 after they are notified that they have been accepted. Deposits required of both resident and non-resident students are applicable to the general charges of the semester, and are not extra fees.

All returning students are required to pay a deposit of \$25.00 on or before July 1, to reserve their place in the student body. This fee is credited to their account. No fees are returned except in case of illness.

Books and Supplies

A modern book and supply store is conveniently located on the campus. Books and supplies are purchased by the individual student. The estimated cost is approximately \$65.00 per year, but will vary somewhat in accordance with the course of study which the student is pursuing. The bookstore is open registration day and daily thereafter.

Art and Music

Tuition for art and music majors is higher than it is for the other courses of study. In these programs best results are obtained by individual instruction; consequently the expense is greater. The cost in excess of the normal tuition varies according to the student's program of study but does not exceed \$50.00 per semester. The exact cost is determined at the time of registration.

Special or part time music students are charged \$50.00 per semester for one one-half hour lesson per week.

A charge of \$5.00 per semester for piano and \$10.00 per semester for organ is made when these instruments are required for practice. These rates are for one period per day for each lesson scheduled.

Special or part time applied art students will be charged \$60.00 for six class periods per week (three credit hours).

Expenses in Detail Per Semester

DORMITORY STUDENTS	<i>Per Semester</i>
Tuition (Normal Schedule)	\$250.00
Room	100.00
Board	200.00
Basic cost per semester*	\$550.00

NON-DORMITORY STUDENTS

Tuition (Normal Schedule)	\$250.00
---------------------------------	----------

SPECIAL CHARGES

Laboratory Fees per semester:

Biology, Chemistry, Physics	\$10.00 to \$30.00
Office Practice (Secretarial Course)	10.00
Office Machines	10.00
Typewriting	10.00
Practice Teaching	40.00
Activities Fees (per year)	50.00
Payable \$25.00 each semester.	

In support of student activities, including athletics, health, student publications, student organizations, lectures, entertainment, for use of the library, gymnasium, and Student Union Building

Late Registration Fee	\$ 5.00
Additional Credit Per Semester Hour	17.50
Key Deposit (for each key required) .....	.50 or 1.00
Diplomas—for A.B. or B.S. degree	10.00
Certificate	5.00
Transcript Fee (no charge for first transcript)	1.00
Caps and Gowns (rental at prevailing cost)	

*Does not include activities fee, laboratory fees and extra credit hours, if any.

Schedule of Payments

All remittances should be made payable to Lycoming College on or before registration day of each semester as follows:

Resident Students	\$350.00
Non-Resident Students	175.00

Bills are not sent for the initial payment, but at mid-semester an itemized statement, showing all charges and payments, will be mailed to the person who is responsible. On receipt of the bill the balance of term charges will be due and payable.

All grants, scholarships, and earnings from college employment will be applied to the student's account at the end of the semester.

Partial Payments

For the convenience of those who find it impossible to follow the schedule of payments as listed, the College has made arrangements with The

Tuition Plan, Incorporated, for the monthly payment of college fees. Additional information concerning partial payments may be obtained from the Treasurer, or Director of Admissions.

Withdrawals and Refunds

The date on which the Dean of the College approves the student's withdrawal sheet is considered the official date of withdrawal. In the case of minors, the approval of the parent or guardian is required before the withdrawal is approved and before any refund is made.

Room rentals have been fixed on a semester basis. Consequently, students leaving college prior to the ending of a semester will not be entitled to any refund on room rent. Board will be pro-rated by the week over the period of attendance.

Refund of tuition will be made to students who withdraw voluntarily from the College while in good standing and is fixed on the following basis: Students leaving during the first four-week period are charged 30%; during the second four weeks 60%; during the third four weeks, 90%; after twelve weeks, full charge.

Dropping a subject from the original schedule after the first week of either semester will not justify any claim for refund of tuition charges. Written permission to drop the subject must be obtained from the Dean's Office. No refund will be made to those students who are asked to withdraw from college.

Other fees cannot be refunded for any reason whatever.

Penalty for Non-Payment of Fees

A student will not be registered for courses in a new semester if his account for previous attendance has not been settled.

No grades will be issued, no diploma, certificate, transcript of credits, or certification of withdrawal in good standing will be granted to any student until a satisfactory settlement of all obligations has been made.

Damage Charges

Wherever possible, damage to dormitory property will be charged to the person or persons directly responsible. Damage and breakage occurring in a room will be the responsibility of students occupying the room.

Halls and bathroom damage will be the responsibility of all students of the section where damage occurs. Actual costs of repairs will be charged.

Financial Assistance

Financial assistance is available through grants from The Methodist Church to children of ministers and ministerial students. Consideration is also given to families with more than one student at the College.

Not more than one grant will be allowed to any student.

The college reserves the right to withdraw any grant from a student whose scholarship or behavior is unsatisfactory.

No grant is allowed on Music and Art, whether taken as extra-subjects in connection with a regular course or whether the student is majoring in one of these subjects.

Loans

A limited number of worthy students, members of the Methodist Church may secure loans from the Student Loan Fund administered by the Board of Education of that Church. Christian character, satisfactory scholarship, promise of usefulness, financial responsibility, and the recommendation of the church to which the applicant belongs are essential to a loan.

There are also loan funds in the Philadelphia and the Central Pennsylvania Conferences of the Methodist Church for students from these conferences on practically the same terms as above.

The income from \$10,000, from the Mr. and Mrs. Robert F. Rich Loan and Prize Fund, is available to a limited number of students. The recipients are selected by the President.

Donald Robert Ahn Memorial Fund in Music. The principal of the Memorial Fund is available for loans to worthy students who are majoring in music. Recipients shall be recommended by the Chairman of the Music Department to the President.

Detailed information may be secured from the Treasurer.

Self-Help

There are frequent opportunities in both the College and the city for self-help for a number of students.

Endowment and Scholarships

Endowment

The Margaret A. Stevenson Powell gift to Endowment. \$1,200 the gift of her children.

The Pearl C. Detwiler gift to Endowment. \$500 bequeathed by her husband.

The Frank Wilson Klepser Memorial gift to Endowment. \$5,000 given by his parents.

The Benjamin C. Bowman gift to Endowment. \$5,000 the gift of Mr. and Mrs. J. Walter Bowman.

The Mr. and Mrs. A. F. Young gift to Endowment. \$10,000.

The Miriam P. Welch gift to Endowment. \$500.

The Wilson Hendrix Reiley Memorial gift to Endowment. \$500.

The Mrs. Margaret J. Freeman gift to Endowment. \$1,000.

The Agnes L. Hermance Art gift to Endowment. \$2,000.

The Grace Stanley Dice Memorial gift to Endowment. \$1,000 the gift of her husband, Willis C. Dice.

The Clarke Memorial Fund of about \$100,000, provided by gift and bequest by the late Miss Martha B. Clarke, of Williamsport, Pennsylvania, a former student, in the interest of the development program of Lycoming College. This was applied to the erection of the Clarke Building.

The Julia Trump Rich Memorial Fund. Endowment through annuity, of \$25,000, the gift of Robert F. Rich, husband.

Scholarships

Over two thousand dollars is awarded annually in scholarships and prizes. This not only encourages scholastic attainment, but also affords generous help to needy, worthy students. The list of scholarships and prizes follows:

THE DEWITT BODINE SCHOLARSHIP, founded by the late DeWitt Bodine, of Hughesville, Pa.

The entire expenses of board and tuition to that pupil of the graduating class of the Hughesville High School who shall excel in scholarship and character.

THE EDWARD J. GRAY SCHOLARSHIP, founded by the late Rev. Dr. Edward J. Gray, for thirty-one years the honored president of this institution.

The interest on \$1,000 to be paid annually, in equal amounts, to the two applicants who attain a required rank highest in scholarship and deportment in the Senior Class.

THE ALEXANDER E. PATTON SCHOLARSHIP, founded by the late Hon. Alexander E. Patton, Curwensville, Pa.

The interest on \$1,000 to be paid annually, in equal amounts, to the two applicants who attain a required rank highest in scholarship and deportment in the Junior Class.

THE GEORGE W. HUNTLEY, JR., SCHOLARSHIP, founded by the late George W. Huntley, Jr., Emporium, Pa.

The interest on \$7,000 is available to help defray the tuition and expenses for the first year only of any graduate of Emporium High School who meets provisions as set forth in the trust agreement. The selection is made by the Superintendent of Schools, Cameron Co., Pa.

THE ELIZABETH S. JACKSON SCHOLARSHIP, founded by the late Mrs. Elizabeth S. Jackson, of Berwick, Pa.

The interest on \$500 to be paid annually to the applicant who attains a required rank highest in scholarship and deportment in the Sophomore class.

THE DONALD C. WOLFE SCHOLARSHIP, founded by the late Mrs. Nora E. Wolfe, of Williamsport, Pa.

The interest on \$4,000 to be paid annually to a worthy ministerial student to be selected by the trustees of Lycoming College.

THE WILLIAM WOODCOCK SCHOLARSHIP, founded by William L. Woodcock, Esq., of Altoona, Pa.

The interest on \$500 to be paid annually to the applicant who attains a required rank second in scholarship and deportment in the Sophomore Class.

THE HIRAM AND ELIZABETH WISE SCHOLARSHIP, founded by Hiram Wise, Montoursville, Pa.

The interest on \$500 to be paid annually to that ministerial or missionary student who because of present circumstances and promise of future usefulness shall, in the judgment of the President, be deemed worthy of the same.

THE MRS. JENNIE M. RICH SCHOLARSHIP of \$5,000, the gift of her son, John Woods Rich, the interest on which is to be used in aiding worthy and needy students preparing for the Christian ministry or for deaconess or missionary work.

THE McDOWELL SCHOLARSHIP, founded by Mr. and Mrs. James E. McDowell, of Williamsport, Pa.

The interest on \$500 to be awarded annually by the President and Faculty to that ministerial student of the graduating class who shall excel in scholarship, deportment, and promise of usefulness, and who declares his intention to make the ministry his life work.

THE DAVID GROVE AND WIFE SCHOLARSHIP, founded by the late David Grove, of Lewistown, Pa.

The interest on \$2,040 to be given to worthy, needy students studying for the ministry, the holder or holders thereof to be appointed by the said Lycoming College.

THE MARY STRONG CLEMENS SCHOLARSHIP FUND of \$2,500 donated by the late Chaplain Joseph Clemens, of Manila, P. I.

The interest to be used as scholarship, or scholarship loan aid, for the benefit of a student or students of Lycoming College who are preparing for the Christian ministry, or for deaconess work, or its equivalent, in the Methodist Church. Beneficiaries may be named by Mrs. Mary Strong Clemens, or in the absence of such recommendation the recipient or recipients shall be named by the President of the School.

THE BERYL CLINE GLENN SCHOLARSHIP.

The interest on \$1,000 to be paid annually to a worthy student in the Music Department. The selection is made by the President and Faculty.

THE BISHOP WILLIAM PERRY EVELAND MEMORIAL SCHOLARSHIP, founded by the Alumni of Lycoming College who were students during the administration of Bishop William Perry Eveland and in his honor.

The interest on \$1,250 to be paid annually to a needy, worthy student or students who shall make the most satisfactory progress in scholarship and give promise of future usefulness and who by loyalty, school spirit, and participation in school activities is considered by the President and Faculty to most fully represent the standards and ideals of Lycoming College.

THE AMOS JOHNSON SCHOLARSHIP, founded by the late Rev. Amos Johnson, of Philadelphia, Pa.

\$500 to be held and invested by Lycoming College and the income arising therefrom to be used for the education of ministerial students of limited means.

THE BENJAMIN C. CONNER SCHOLARSHIP, the interest on \$500 given by an alumnus of the college to be awarded to that graduating student who has had at least 24 hours of mathematics beyond Mathematics 100 and whose average is highest for the mathematics courses taken beyond Mathematics 301.

THE RICH MEMORIAL SCHOLARSHIP FUND of \$5,000, provided in the will of the late Hon. M. B. Rich, the interest of which is to be awarded annually to worthy young men or women who intend to devote their lives to the preaching of the Gospel, the missionary cause, or the work of a deaconess. The beneficiary shall be named by the Faculty with the approval of the Board of Trustees.

THE C. LUTHER CULLER SCHOLARSHIP, the interest from an endowment of \$5,000 provided in the will of C. Luther Culler, of Williamsport, a graduate of Lycoming College in the Class of 1876. Awarded on scholarship.

THE CLARA KRAMER EATON MEMORIAL SCHOLARSHIP, founded by the late Clara Kramer Eaton, of Trevorton, Pa.

The interest on \$8,000 to be awarded annually to that student in the graduating class at Trevorton High School attaining the highest average in scholarship, for the purpose of defraying the expenses of a year of instruction at Lycoming College.

THE ELISHA BENSON KLINE SCHOLARSHIP PRIZE IN MATHEMATICS, founded by I. Clinton Kline, Sunbury, Pa., in honor of his elder brother who graduated from the College in 1868.

The interest on \$1,000 to be paid to a student or students at the discretion of the President of Lycoming College.

THE NATIONAL METHODIST SCHOLARSHIP AWARDS, authorized by the General Conference of The Methodist Church, are granted on the basis of financial need, promise of usefulness, leadership ability, and scholarship, to Methodist students enrolling as full-time students in an accredited Methodist college or university.

THE \$1,000 COMPETITIVE TRUSTEE SCHOLARSHIPS.

A reduction in tuition of \$125.00 per semester for four years to the three contestants receiving the highest scores in a competitive examination held at the college in May.

THE BYRON C. BRUNSTETTER SCIENCE AWARD, established by Mrs. Frank H. Brunstetter in memory of her son.

The income on \$500 to be awarded to that senior majoring in the chemical and biological sciences who shall be judged by the Science division to have been a superior student in these sciences.

THE CLASS OF 1907 SCHOLARSHIP of \$25 to be awarded annually to that student at Lycoming College who shall attain high scholarship and who, in the opinion of the President and the faculty, has been outstanding in the promotion of college spirit through participation in athletics and other non-curricular college activities. This scholarship is made available through the gift of A. R. Evans.

Prizes

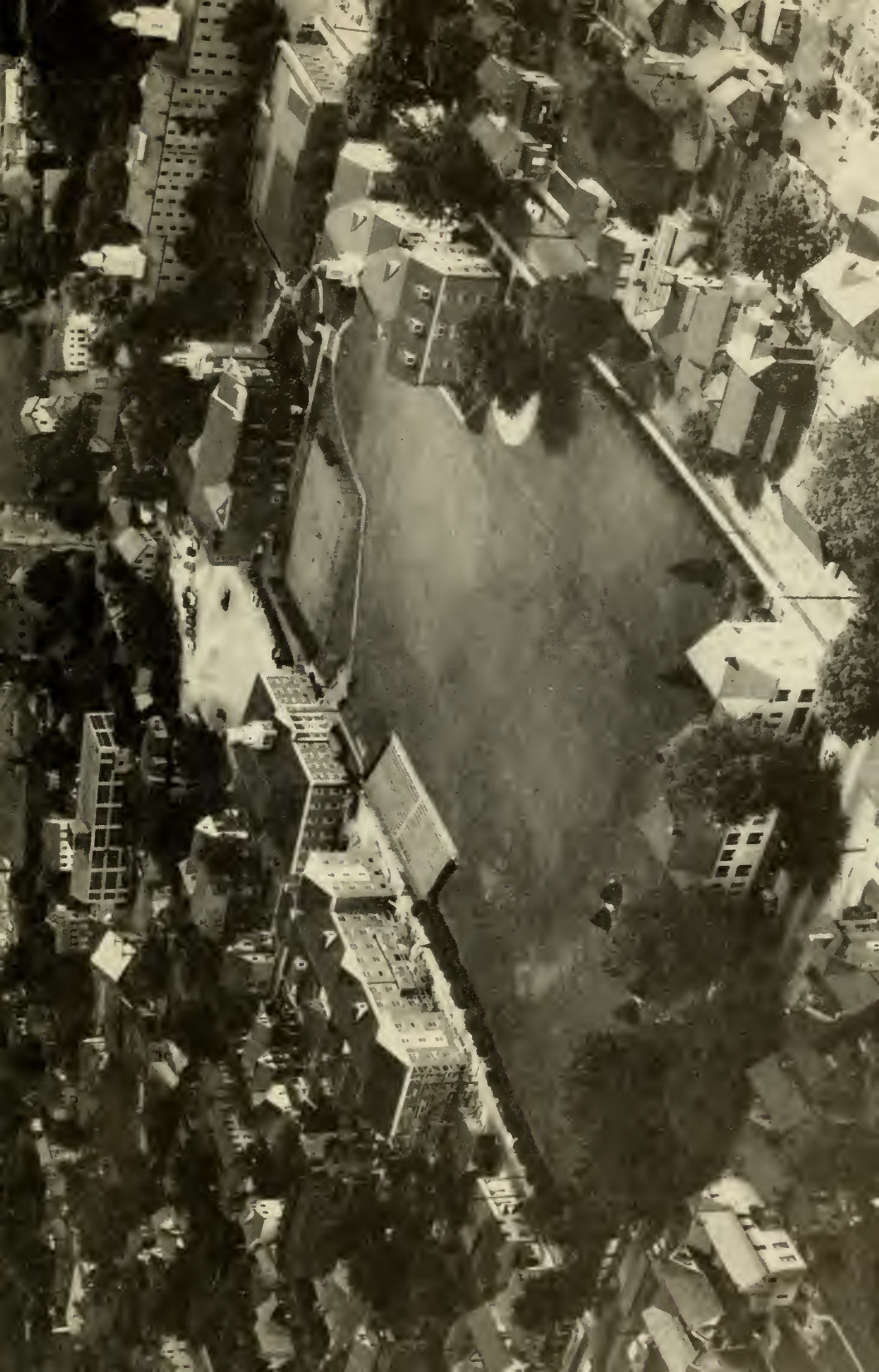
THE RICH PRIZE of \$25.00, given in honor of the late Hon. and Mrs. M. B. Rich, of Woolrich, Pa., to the student in the Freshman Class who shall attain a required rank highest in scholarship and deportment.

THE METZLER PRIZE of \$10.00 for superior work in Junior English, given by the late Rev. Oliver Sterling Metzler, of the Central Pennsylvania Conference.

THE RICH PRIZES of \$10.00 and \$5.00 each, given in honor of the late Hon. and Mrs. M. B. Rich, of Woolrich, Pa., to be awarded to the two students who at a public contest shall excel in reading the Scriptures.

THE RICH PRIZES of \$15.00 and \$10.00 each, given in honor of the late Hon. and Mrs. M. B. Rich, of Woolrich, Pa., to be awarded to the two students who shall excel in writing and delivering an original oration.

THE ART DIGEST PRIZE, given by the Head of the Art Department, a year's subscription to *The Art Digest*, to that student who has shown the most improvement.





THE FACULTY PRIZE, awarded to that day student whose scholastic record has been satisfactory and who, in the opinion of the faculty, has been outstanding in the promotion of school spirit through participation in school activities.

THE 1930 DART PRIZE, the interest on \$300.00 to be given to that student or students in the Art Department according to the recommendation of the Head of the Art Department.

THE KAPPA DELTA RHO FRATERNITY PRIZE of \$25.00 to that college organization which during the past year best exemplified an ideal of Kappa Delta Rho; athletic prowess, social grace, or intellectual achievement. Awarded annually by a majority vote of the brothers.

THE WILLIAMSPORT CIVIC CHOIR PRIZE, to be awarded to that member of Lycoming Choir who in the judgment of the director, the choir members, and the faculty shall have demonstrated through his choir activity, his loyalty to the ideals of Lycoming College.

AN AWARD BY THE PENNSYLVANIA INSTITUTE OF CERTIFIED ACCOUNTANTS to the senior judged to be the best accountant in terms of scholarship, personality, and qualities of leadership.

Summary of Students

Summer Session, 1956

First Session	.	.	.	.	.	.	.	134
Second Session	.	.	.	.	.	.	.	143
Total Summer Enrollment	.	.	.	.	.	.	.	<u>277</u>

Fall Semester, 1956

Arts and Science	.	.	.	.	.	.	.	522
Pre-Medical	.	.	.	.	.	.	.	32
Pre-Dental	.	.	.	.	.	.	.	13
Pre-Law	.	.	.	.	.	.	.	24
Pre-Ministerial	.	.	.	.	.	.	.	52
Art	.	.	.	.	.	.	.	12
Music	.	.	.	.	.	.	.	22
Secondary Education	.	.	.	.	.	.	.	118
Elementary Education	.	.	.	.	.	.	.	47
Medical Technology	.	.	.	.	.	.	.	33
Nursing	.	.	.	.	.	.	.	7
Engineering	.	.	.	.	.	.	.	58
Forestry	.	.	.	.	.	.	.	4
Other Majors	.	.	.	.	.	.	.	100
Business Administration	.	.	.	.	.	.	.	221
Secretarial and Medical Secretarial Science	.	.	.	.	.	.	.	49
Total	.	.	.	.	.	.	.	<u>792</u>
Evening School Students	173
Nurses' Training Students	22
Grand Total, Fall Semester	<u>987</u>

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Preliminary Enrollment Blank
Lycoming College, Williamsport, Pennsylvania

Date

Name

Address

Phone Number Sex Age

Years of High School Work Completed

Name of High School

College Work Completed (If any)

When do you expect to enter Lycoming?

Which curriculum do you wish to study?

Are you enclosing application fee of \$10.00?

If a veteran, check Public Law under which you are eligible

for training: 550..... 894.....

Mail appropriate blank to:
DIRECTOR OF ADMISSIONS
LYCOMING COLLEGE, WILLIAMSPORT, PA.

Application for Admission to Summer Sessions
Lycoming College, Williamsport, Pennsylvania

Name

Address

is a student in good standing at

College

Location

and has permission to enroll in the following courses at Lycoming College:

Semester Hours

.....
.....
.....
.....

..... Signed

Date Dean or Registrar

Notes

Notes

Notes

Lycoming College in Williamsport, Pennsylvania

Stop Signs —○—
Lights —*—

